

Read this manual before installing or operating this fireplace. Please retain this owner's manual for future reference.

Congratulations!

Congratulations on selecting a Heat & Glo wood burning fireplace. The Heat & Glo fireplace you have selected is designed to provide the utmost in safety and reliability.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings. This owner's manual should be retained for future reference. We suggest you keep it with your other important documents and product manuals.

Your new Heat & Glo wood burning fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Heat & Glo family of fireplace products!

Homeowner Reference Information	We recommend that you record the following pertinent information about your fireplace:					
Model Name:	Date purchased/installed:					
Serial Number:	Location on fireplace:					
Dealership purchased from:	Dealer phone:					
Notes:						

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate located on the smoke shield of the fireplace.

Serial	Grate Fireplace
Number	Model
LISTED FIREPLACE NO. WARNING: RISK FIRE DAMAGE. GRATE WITH HEAR TECHNOLOGIES	REPLACE WODELNO. WODELNO. WFG. DATE
	TECHNOLOGIES INC. LISTED FIREPLACE PARTS. SEE INSTALLATION AND MOME TECHNOLOGIES INC. GLASS DOOR KITS CAN BE INSTALLED ON THIS UNIT.
FIREPLACE ALSO FOR USE	CLEARANCE TO CHIMNEY
IN MANUFACTURED HOMES YES NO	COMBUSTIBLES: 2 IN. MIN. FIREBOX MIN.
FAN KIT	RATED AT
MODEL NO.	115 VOLTS, 50/60 Hz.,
DO NOT OVERFIRE. USE ONLY: SOLID WOOD FUEL OR LISTED DECORATIVE GAS APPLIANCE. DO NOT USE A FIREPLACE INSERT OR OTHER PRODUCTS NOT SPECIFIED FOR USE WITH THIS PRODUCT. IF DOORS ARE USED OPERATE FIREPLACE WITH DOORS FULLY	WARNING! THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET. TO REDUCE THE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO FIREPLACE. WARNING! THIS APPLIANCE IS NOT FOR USE AS COOKING EQUIPMENT.
OPEN OR CLOSED ONLY. WHEN BURNING A	IF INSTALLATION OR OPERATING INSTRUCTIONS ARE MISSING
DECORATIVE GAS APPLIANCE IN THE FIREPLACE,	CONTACT: HEARTH & HOME TECHNOLOGIES INC.,
ADJUST DAMPER TO THE FULLY OPEN POSITION.	1915 W. SAUNDERS ST., MT. PLEASANT, IA 52641.

Safety Alert Key:

ADANGER! Indicates a hazardous situation which, if not avoided will result in death or serious injury.

- WARNING! Indicates a hazardous situation which, if not avoided <u>could</u> result in death or serious injury.
- CAUTION! Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- NOTICE: Indicates practices which may cause damage to the fireplace or to property.

Table of Contents

	Co	ngratulations!		2
1	List	ting and Code Approvals	5	
	Α.	Appliance Certification		5
	В.	Non-Combustible Materials		5
	C.	Combustible Materials		5
		User Guide		
2	Оре	erating Instructions	6	
	Ă.	Your Fireplace		6
	В.	Seasoned Wood		7
	C.	Starting a Fire		7
	D.	Grate		7
		Firescreen		7
	F.	Flue Damper		7
		Refractory		7
		Glass Doors		8
	١.	Outside Air (optional)		8
	J.	Fan Kit (optional)		8
	K.	Vented Gas Log Sets & Gas Log Lighters		8
	L.	Optional Components		8
		Clear Space Wood Fuel		8
	IN.	Wood Fuel		9
3	Mai	ntainance and Service	10	
	Α.	Disposal of Ashes		10
	В.	Chimney Inspection/Cleaning		10
		Check Firebox Refractory		11
	D.	Inspect Grate		11
	E.	Glass Cleaning		11
4	Tro	ubleshooting Guide	12	
		Installer Guide		
5	Get	ting Started	13	
	Α.	Typical Fireplace System		13
	В.	Design and Installation Considerations		14
	C.	Draft		14
	D.	Negative Pressure		14
	E.	Locating Fireplace & Chimney		15
	F.	Tools and Supplies Needed		16
	G.	Typical Fireplace System		16 16
	H.	Inspect Fireplace and Components		10
6		ming & Clearances	17	
	Α.	Select Fireplace Location		17
	В.	Clearances		18
	C.	Sidewalls/Surrounds		19
	D.	Frame the Fireplace		19

7	Inst	allation of Fireplace	20	
	E. F.	Things to Consider Position the Fireplace Place Protective Metal Hearth Strips Level Fireplace Install Outside Air Kit Junction Box Installation Installation of Fan		20 20 20 22 22 22 23
8	Chi	mney Assembly	24	
	Α.	Chimney Requirements		25
	B.	Using Offsets/Returns		26
		Assembling Chimney Sections Install Chimney Air Kit		27 27
	E.	Installing Ceiling Firestops		27
	F.	Installing Attic Insulation Shield		28
	G.	Cut out Hole in Roof		29
	Η.	Complete Installation		29
	Ι.	Install Flashing		29
	J.	Chimney Termination Requirements		30
9		ase Installations	31	
	A.	Construct the Chase		31
	B.	Install Fireplace & Chimney Install Chase Top		32 32
	D.	•		33
10		ouds	35	
10	A.	Radiation Shield	55	35
	В.			35
11	Fini	ishing	37	
	Α.	Non-Combustible Materials	-	37
	В.			37
		Hearth Extension		37
		Finishing Material		38
	E. F.	Combustible Mantel Sidewalls/Surrounds		39 39
4.0				39
12		cessories	40	40
	А. В.	Gas Log/Lighter Provision Wood Burning Inserts		40 40
	С.	Install Fan		40
13	Ref	erence Materials	41	
	A.	Fireplace Dimensions	71	41
	В.	Fireplace Components		42
	C.	Chimney Components		44
	D.	Service Parts		48
	E.	Contact Information		52

Note: An arrow (→) found in the text signifies change in content.

HEAT&GLO

No one builds a better fire

WARRANTY FOR HEAT & GLO FIREPLACES

The limited warranty will not become effective until you have mailed the completed warranty card to:

Hearth & Home Technologies Inc. 20802 Kensington Blvd., Lakeville, MN 55044.

This card must be mailed within 60 days of the fireplace installation.

Subject to the conditions set forth herein, HEARTH & HOME TECHNOLOGIES INC. (HHT) extends the following limited warranty with respect to your Heat & Glo fireplace, excluding accessories, chimney components and glass doors.

If HHT is satisfied that any part or portion of the fireplace covered by this warranty is defective in material or workmanship under normal use and service as described in the operating instructions, HHT will take the following actions:

- Within the first five (5) years from the date of installation, HHT shall, at its option, replace or repair any such defect in material or workmanship, at HHT's expense. HHT SHALL NOT BE RESPONSIBLE FOR ANY OTHER LABOR COSTS, OR EXPENSES, INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
- During the sixth (6th) through the (10th) years after the date of installation, HHT shall supply replacement parts or parts at no charge, but SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION, OR OTHER INDIRECT DAMAGES.
- 3. During the eleventh (11th) through the fifteenth (15th) years after date of installation, HHT will send to you, FOB its factory, replacement parts (if available) at the current minimum wholesale price, but HHT SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION OR OTHER INDIRECT DAMAGES.
- 4. During the first six (6) months after installation, HHT shall, at its option, replace or repair the glass doors and any electrical components, if operation is faulty. (This does not include glass panels broken during shipment, misuse or careless handling.) After the first six (6) months, HHT will sell to you, FOB its factory, replacement parts at the current list price, but HHT SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION OR OTHER INDIRECT DAMAGES. IF GLASS DOORS OTHER THAN FACTORY DOORS ARE USED ALL WARRANTY AND LIABILITY ON THE FIREPLACE IS VOIDED.

HHT may discharge its entire warranty liability by refunding the price of the product.

Products made by other manufacturers, sold with the fireplace or thereafter are not covered by this limited warranty.

This limited warranty will be void if the fireplace is not installed according to the installation instructions. The limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished. The limited warranty will also be void if the fireplace is removed from the place originally installed.

EXCEPT TO THE EXTENT PROVIDED BY LAW, NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NO IMPLIED WARRANTIES SHALL APPLY TO THE FIRE-PLACE AFTER THE ABOVE LIMITED WARRANTY HAS EXPIRED.

In states that do not allow limitations on how long implied warranty lasts, or do not allow exclusion of indirect damages, those limitations or exclusions may not apply to you. You may also have additional rights not covered in this limited warranty.

HHT reserves the right to make changes at anytime, without notice, in design, material, specifications and prices and the right to discontinue styles and products.

Feb 2006

A. Appliance Certification

This fireplace system has been tested and listed in accordance with UL 127 and ULC-S610 standards by Underwriters Laboratories Inc. for installation and operation in the United States and Canada.

This fireplace may be installed in sleeping rooms EX-CEPT in manufactured homes. If installed with a gas log set, provisions for the National Fuel Gas Code must be met.

This fireplace has been tested and listed for use with the optional components specified in this manual. These optional components may be purchased separately and installed at a later date. Installation of an outside air kit will require significant reconstruction and is best if installed at the time of fireplace installation.

Heat & Glo is a registered trademark of Hearth & Home Technologies Inc.

WARNING! Risk of Fire! Hearth & Home Technologies disclaims any responsibility for, and the warranty and agency listing will be voided by the following actions.

DO NOT:

- install or operate damaged fireplace
- modify fireplace
- install other than as instructed by Hearth & Home Technologies
- operate the fireplace without fully assembling all components
- overfire
- install an unvented gas log set
- *install any component not approved by Hearth & Home Technologies*
- · install parts or components not Listed or approved

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified installer, service agency or your dealer.

NOTICE: This fireplace is tested and approved as a decorative fireplace. It should not be factored as a primary heat source in residential heating calculations.

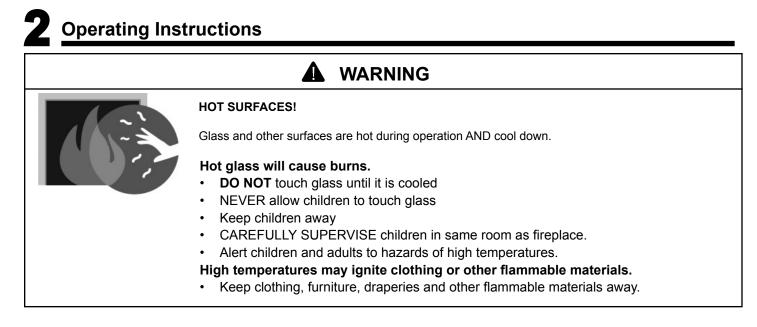
B. Non-Combustible Materials

- Materials which will not ignite and burn, composed of any combination of the following:
 - Steel Iron
 - Brick Tile
 - Concrete Slate
 - Glass Plasters
- Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace at 750° C

C. Combustible Materials

- Materials made of or surfaced with any of the following materials:
 - Wood Compressed paper
 - Plant fibers Plastic
- Any material that can ignite and burn; flame proofed or not, plastered or un-plastered

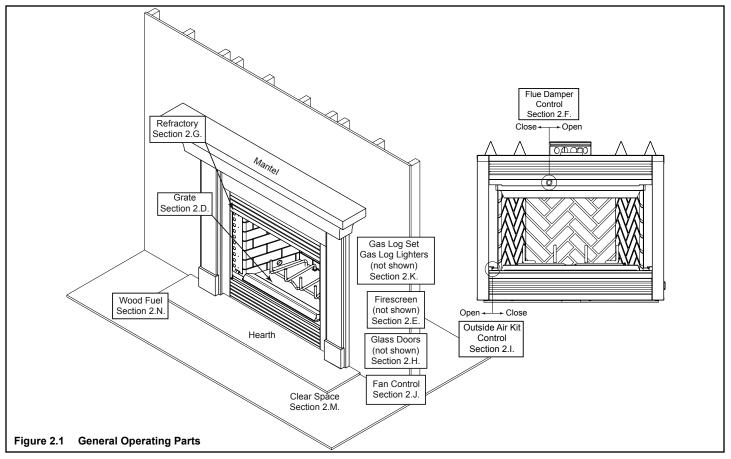
User Guide



If you expect that children may come into contact with this appliance, we recommend a barrier such as a decorative screen. See your dealer for suggestions.

A. Your Fireplace

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. Failure to operate fireplace according to operating instructions could cause fire or injury.



B. Seasoned Wood

Properly seasoned wood is important for successful operation of your fireplace. Most woodburning fireplace problems are caused by burning wet, unseasoned wood.

Seasoned firewood is wood that is cut to size, split and air dried to a moisture content of around 20%.

Imagine a wooden bucket that weighs about eight pounds. Fill it with a gallon of water, put it in the fireplace and try to burn it. This sounds ridiculous but that is exactly what you are doing if you burn unseasoned wood.

A tree cut down a year ago and not split is likely to have almost as high a moisture content now as it did when it was cut.

Please refer to Section 2.N. for more detail.

C. Starting a Fire

NOTICE: You must establish a good draft to prevent smoke spillage into the room.

WARNING! Risk of Fire! Keep combustible materials, gasoline and other flammable vapors and liquids clear of the fireplace.

DO NOT:

- store flammable materials close to the fireplace
- use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this fireplace.

Keep all flammable liquids well away from the fireplace while it is in use. Combustible materials may ignite.

- The first three or four fires should be of moderate size to allow the oils and binders to be burned from the fireplace and the refractory and paint to cure. You may notice an industrial odor the first few fires. This is considered normal.
- Use well-seasoned wood (see Section 2.N.).
- Open the flue damper to a fully open position.
- Place crumpled or twisted paper under the fireplace grate.
- Loosely arrange kindling or small pieces of wood to form a 'tent' on the fireplace grate.
- Pre-warm the flue to establish a draft to help reduce smoke spillage during start-up. Hold a rolled up piece of burning newspaper under the flue damper for a few moments.
- Light the crumpled paper to ignite the kindling.
- Add small pieces of wood until a hot bed of embers has been established.
- Add a minimum of three average size pieces of split firewood, placed to allow combustion air and flames between them.

CAUTION! Odors and vapors released during initial operation may be irritating to sensitive individuals. **Open windows for air circulation.**

D. Grate

This fireplace is designed to be used with the grate supplied with this unit or one approved by HHT. The grate will break down over time and will need occasional replacement.

WARNING! Risk of Fire! Use only the factory-supplied integral grate.

- Keeps logs in place.
- Allows proper air circulation around the fire.

E. Firescreen

The firescreen is provided to control sparks. Keep it closed when the fireplace is in use.

WARNING! Risk of Fire or Burns!

- Screen will not prevent burning materials from falling out.
- Screen pulls or handles may be hot.

F. Flue Damper

- Refer to Figure 2.1 for location of control.
- Must be in fully open position (handle up toward the top of the fireplace) during operation of the fireplace.
- Before lighting the fireplace, verify fully open position by looking up from the inside of the fireplace.

WARNING! Risk of Fire and Asphyxiation! Open

damper prior to operating fireplace. A closed damper overfires the fireplace and spills smoke and flames into the room.

G. Refractory

- The refractory is supplied to contain heat and provide an attractive interior.
- It will break down over time and will need occasional replacement. Small hairline cracks and discoloration are normal and do not affect its safety.
- (See refractory maintenance Section 3.C.)

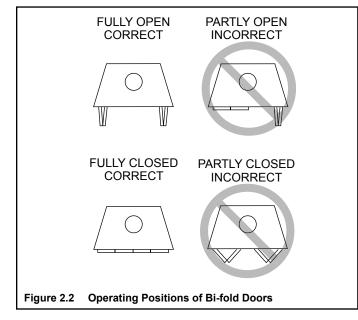
WARNING! Risk of Fire! DO NOT burn fireplace without refractory. Use only refractory supplied by Hearth & Home Technologies, Inc.

H. Glass Doors

- Glass doors are optional.
- Refer to Figure 2.2 for how to properly use them.

WARNING! Risk of Fire! Install ONLY doors approved by Hearth & Home Technologies, Inc.

WARNING! Risk of Fire and Smoke! Fireplaces equipped with doors should be operated only with doors fully open or doors fully closed. If doors are left partly open, gas and flame may be drawn out of the fireplace opening.



K. Vented Gas Log Sets & Gas Log Lighters

- Optional.
- Vented gas logs or gas log lighters can be installed in this fireplace. Follow the instructions provided with the accessory for operation.

WARNING! Risk of Fire or Asphyxiation!

- DO NOT install unvented gas logs.
- Damper must be locked open.
- Gas flame may generate fumes.

L. Optional Components

- Other options may be available
- Consult your dealer/distributor

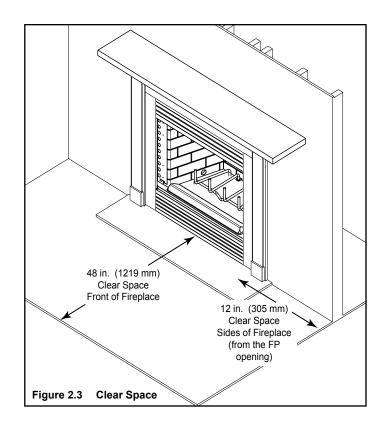
WARNING! Risk of Fire! DO NOT install and or use any component not approved by Hearth & Home Technologies Inc.

M. Clear Space

• Do not place combustible objects within 48 in. (1219 mm) of the front of fireplace. See Figure 2.3.

WARNING! DO NOT place combustible objects in front of the fireplace. High temperatures may ignite clothing, furniture or draperies.

 Mantel - avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.



I. Outside Air (optional)

The outside air kit supplies some fresh combustion air for your fireplace. It may help reduce the effects of negative air pressure. (See Section 5.D.)

- Refer to Figure 2.1 for location of control
- Close the inlet to prevent cold drafts when the fireplace is not being used.

CAUTION! Risk of Burns! The outside air control handle is HOT when fireplace is in operation. Adjust BEFORE lighting fire.

J. Fan Kit (optional)

· Refer to instructions included with fan kit.

N. Wood Fuel

Hardwood vs Softwood

Your fireplace performance depends on the quality of the firewood you use.

- Seasoned wood contains about 8,000 BTUs per pound
- · Hard woods are more dense than soft woods.
- Hard woods contain 60% more BTUs than soft woods.
- Hard woods require more time to season, burn slower and are harder to ignite.
- Soft woods require less time to dry, burn faster and are easier to ignite.
- Start the fire with soft wood to bring the fireplace up to operating temperature and to establish draft.
- Add hard wood for slow, even heat and longer burn time.

Soft woods	Hard woods				
 Douglas Fir Pine Spruce Cedar Poplar Aspen Alder 	OakMapleAppleBirch				

Moisture

WARNING! Risk of Fire!

- DO NOT burn wet or green wood.
- Wet, unseasoned wood can cause accumulation of creosote.

The majority of the problems fireplace owners experience are caused by trying to burn wet, unseasoned wood.

- Wet, unseasoned wood requires energy to evaporate the water instead of heating your home, and
- Evaporating moisture cools your chimney, accelerating formation of creosote.

Seasoned Wood

- Cut logs to size
- Split to 6 in. (152 mm) or less
- Air dry to a moisture content of around 20%
 Soft wood about nine months
 - Hard wood about eighteen months

NOTICE: Seasoning time may vary depending on drying conditions.

Storing Wood

Steps to ensure properly seasoned wood:

- Stack wood to allow air to circulate freely around and through woodpile.
- Elevate wood pile off ground to allow air circulation underneath.
- Smaller pieces of wood dry faster. Any piece over 6 in. (152 mm) in diameter should be split.
- Wood (whole or split) should be stacked so both ends of each peice are exposed to air. More drying occurs through the cut ends than the sides.
- Store wood under cover to prevent water absorbtion from rain or snow. Avoid covering the sides and ends completely.

WARNING! Fire Risk! DO NOT store wood:

- In front of the fireplace.
- In space required for loading or ash removal.

Processed Solid Fuel Firelogs

Manufactured firelogs may be used with this fireplace. Hearth & Home Technologies Inc. recommends the use of UL Classified processed fuel firelogs. Follow the manufacturer's lighting and safety instructions.

Using firelogs may require more frequent chimney inspection and cleaning.

Do not poke or stir the logs while they are burning. Use only firelogs that have been evaluated for the application in manufactured fireplaces and refer to firelog warnings and caution markings on packaging prior to use.

A. Disposal of Ashes

Frequency: When they reach bottom of grate **By:** Homeowner

WARNING! Risk of Fire! Ashes could contain hot embers.

- Place ashes in a metal container with a tight-fitting lid.
- The closed container should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal.
- If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled

B. Chimney Inspection/Cleaning

Frequency: At least twice a year during heating season or as recommended by a certified chimney sweep **By:** Certified chimney sweep

WARNING! Risk of Fire! Ignited creosote is extremely HOT. Prevent creosote buildup.

Refer to Figure 3.1 to remove/reinstall termination caps.

Creosote - Formation and Need for Removal

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.

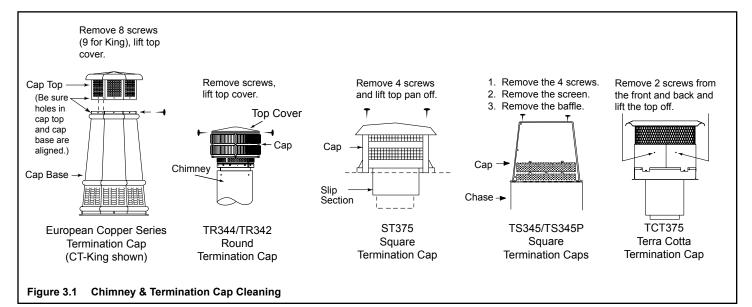
WARNING! Risk of Fire! A chimney fire can permanently damage your chimney system and nearby structures.

In the event of a chimney fire, Hearth & Home Technologies Inc. recommends

- replacement of the chimney, and
- inspection of the adjacent structure to the provisions of NFPA Level III inspection criteria.

The chimney shall be inspected at least twice a year during the heating season to determine when a creosote buildup has occurred.

When creosote has accumulated it shall be removed to reduce the risk of a chimney fire.



C. Check Firebox Refractory

Frequency: After each ash removal **By:** Homeowner

WARNING! Risk of Fire! Inspect fireplace refractory. Crumbling, deteriorated refractory can allow overheating of surrounding materials.

Expansion and contraction will cause minor cracking of the refractory. This is normal. The refractory will require periodic replacement depending on use.

The panels should be replaced if

- Cracks exceed 1/4 inch (6 mm) in width,
- Metal is exposed behind the refractory,
- Large pieces of refractory fall out.

D. Inspect Grate

Frequency: After each ash removal **By:** Homeowner

Inspect grate for:

- Warping or sagging 1-1/2 in. (38 mm) or more
- Broken welds
- Burn-through of grate bars

For safe operation, replace only with an approved grate from Hearth & Homes Technologies Inc.

E. Glass Cleaning

Frequency: As desired By: Homeowner

CAUTION! Handle glass assembly with care. Glass is breakable.

- Avoid striking, scratching or slamming glass
- Avoid abrasive cleaners
- DO NOT clean glass while it is hot

Clean glass with a non-abrasive commercially available cleaner or ashes:

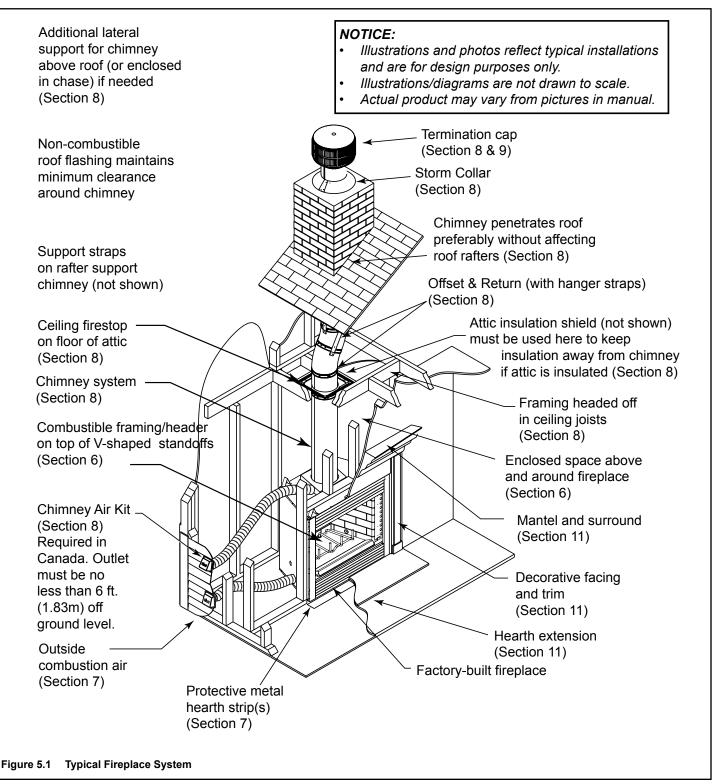
- Light deposits
 - Use household glass cleaner
- · Heavy deposits
 - Use wood ash on damp cloth or,
 - Use commercial fireplace glass cleaner (consult with your dealer)

Start Fire Problems	Possible Cause	Solution			
Can't get fire started Excessive smoke or spillage	Not enough kindling/paper or no kindling/paper	Use dry kindling, more paper. Arrange kindling & wood for air movement.			
Burns too slowly Smolders, sizzles	Damper closed/not fully open	Open damper.			
	Not enough air for fire to ignite	Check for restricted cap/shroud.			
		Open air kit (if installed).			
		Check for flue blockage.			
		Pre-warm flue before starting fire (refer to starting fire section).			
		Check for adequate vent height (refer to chimney assembly section).			
		Open window below the fireplace towards the wind.			
	Wood condition is too wet, too large	Use dry, seasoned wood (refer to wood fuel section).			
	Bed of coals not established before adding wood	Start with paper & kindling to establish bed of coals (refer to starting fire section).			
	Flue blockage such as birds' nests or leaves in termination cap	Have chimney inspected for creosote and cleaned by a certified chimney sweep.			
	Down draft or negative pressure Competition with exhaust	Do not use exhaust fans during start-up (refer to negative pressure section).			
	devices	Open window below the fireplace towards the wind.			
Fire burns too fast	Extremely dry or soft wood	Mix in hardwood.			
		Mix in less seasoned wood after fire is established (refer to wood fuel section).			
	No glass doors	Add glass doors to slow down air flow.			
	Overdrafting	Check for correct vent height; too much vertical height creates overdrafting.			
		Check location of vent termination (refer to chimney assembly section).			

Installer Guide

5 Getting Started

A. Typical Fireplace System



B. Design and Installation Considerations

NOTICE: Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the fireplace is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- · Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch or remote control—are desired.

C. Draft

Draft is the pressure difference needed to vent fireplaces successfully. When a fireplace is drafting successfully, all combustion byproducts are exiting the home through the chimney.

Considerations for successful draft include:

- Preventing negative pressure
- Location of fireplace and chimney

NOTICE: Hearth & Home Technologies assumes no responsibility for the improper performance of the fireplace system caused by:

- · Inadequate draft due to environmental conditions
- Downdrafts
- Tight sealing construction of the structure
- Mechanical exhausting devices
- Improper location of the chimney

D. Negative Pressure

WARNING! Risk of Asphyxiation! Negative pressure can cause spillage of combustion fumes and soot. Fire must draft properly for safe operation.

Negative pressure results from the imbalance of air available for the fireplace to operate properly. It can be strongest in lower levels of the house.

Causes include:

- Exhaust fans (kitchen, bath, etc.)
- Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- · Clothes dryers
- Location of return-air vents to furnace or air conditioning
- · Imbalances of the HVAC air handling system
- Upper level air leaks such as:
 - Recessed lighting
 - Attic hatch
 - Duct leaks

To minimize the effects of negative air pressure:

- Install the outside air kit with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for <u>all</u> combustion appliances and exhaust equipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the fireplace
- Avoid installing the fireplace near doors, walkways or small isolated spaces
- · Recessed lighting should be a "sealed can" design
- Attic hatches weather stripped or sealed
- Attic mounted duct work and air handler joints and seams taped or sealed
- Basement installations should be avoided

NOTICE: Hearth & Home Technologies Inc. recommends the use of direct vent fireplaces in basements.

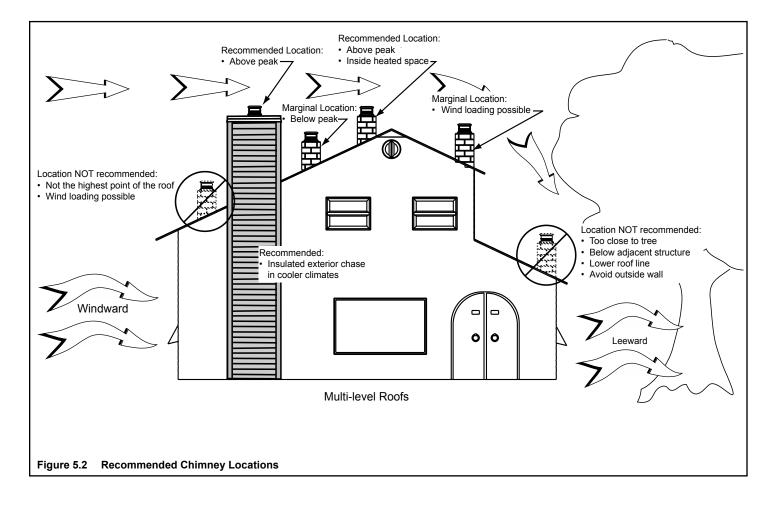
E. Locating Fireplace & Chimney

Location of the fireplace and chimney will affect performance.

- Install through the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.
- Minimize the use of chimney offsets.
- Consider the fireplace location relative to floor and ceiling and attic joists.
- Take into consideration the termination requirements in Section 8 and Section 9.

NOTICE: Locating the fireplace in a basement or in a location of considerable air movement can cause intermittent smoke spillage from fireplace. Do not locate fireplace near

- frequently open doors
- central heat outlets or returns



F. Tools and Supplies Needed

Before beginning the installation be sure the following tools and building supplies are available:

Reciprocating saw	Framing material
Pliers	High temp caulking material
Hammer	Gloves
Phillips screwdriver	Framing square
Flat blade screwdriver	Electric drill and bits
Plumb line	Safety glasses
Level	Tape measure
1/2-3/4 in. length, #6 or	#8 self-drilling screws
Misc. screws and nails	

G. Typical Fireplace System

This fireplace system requires:

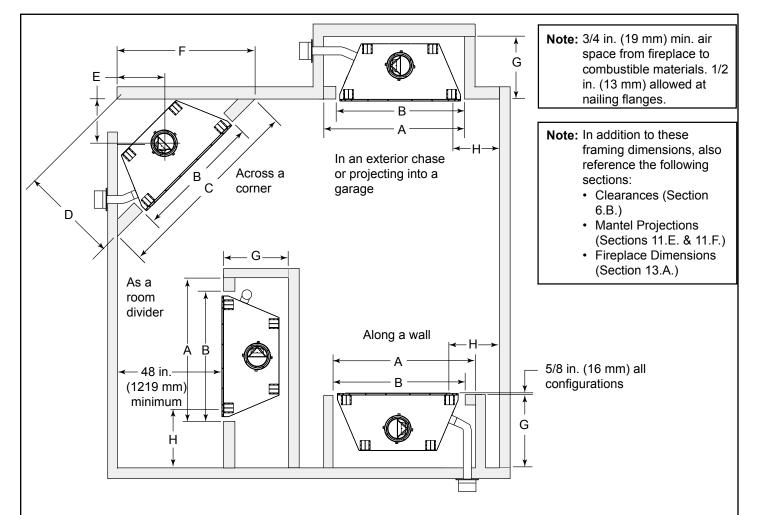
- Fireplace/integral grate/refractory/outside air system
- Chimney system and termination cap
- Hearth extension

H. Inspect Fireplace and Components

WARNING! Risk of Fire and/or Explosion! Damaged parts could impair safe operation. **DO NOT** install damaged, incomplete or substitute components. Keep fireplace dry.

- Remove fireplace and components from packaging and inspect for damage.
- Vent system components and doors are shipped in separate packages.
- Report to your dealer any parts damaged in shipment.
- Read all the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.

A. Select Fireplace Location



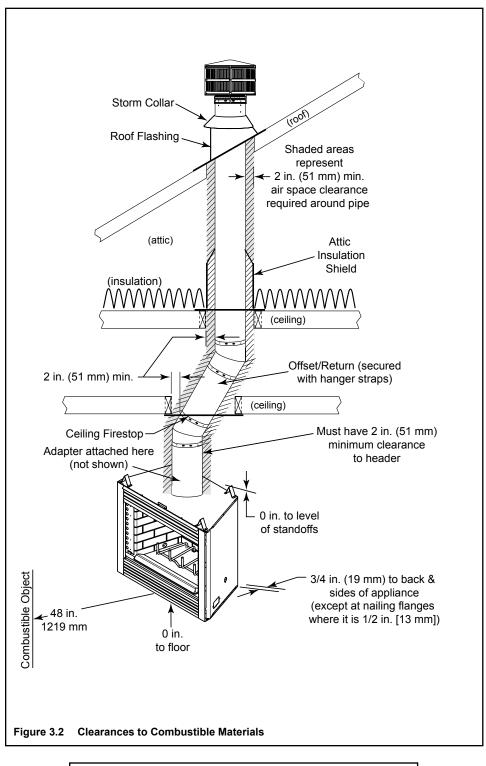
Note: Measurements are FRAMING dimensions only and do not include drywall either in the cavity or on the interior walls.

Model #		Α	В	С	D	Е	F	G	Н
EM-415	in.	51	43	74 7/8	35 3/4	15 3/4	53	23	12 in. (305 mm)
EIVI-415	mm	1295	1092	1902	908	400	1346	584	Minimum from FP opening to any
EM-485	in.	57	49	77 1/2	38 7/8	18	54 7/8	23	perpendicular wall.
Elvi-405	mm	1448	1245	1969	987	457	1394	584	

Figure 6.1 Fireplace Locations (Framing dimensions shown)

B. Clearances

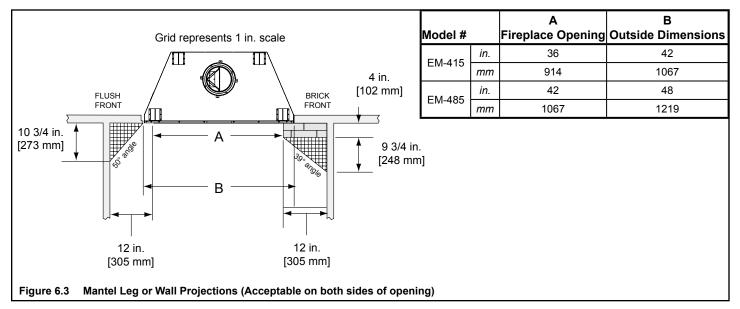
WARNING! Risk of Fire! You must comply with all minimum air space clearances to combustibles as specified in Figure 6.2. DO NOT pack required air spaces with insulation or other materials.



Note: Chimney air kit not shown, but required in Canada.

C. Sidewalls/Surrounds

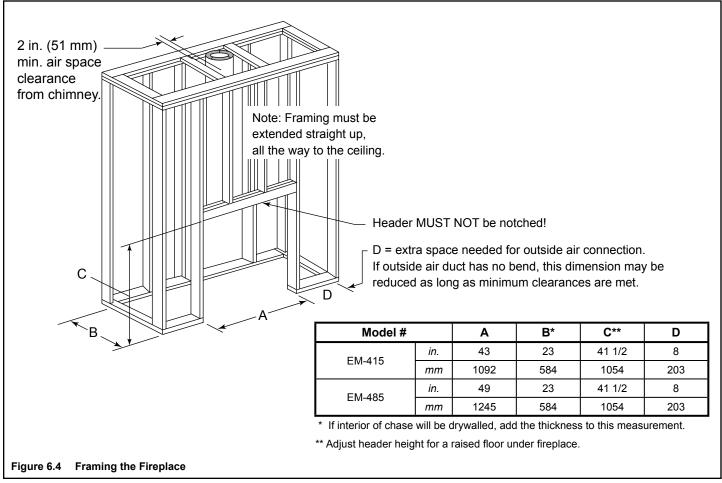
- Adjacent combustible sidewalls must be located a minimum of 12 in. (305 mm) (may be 24 in) from the fireplace opening.
- Combustible and noncombustible mantel legs, surrounds and stub walls may be constructed per Figure 6.3.



D. Frame the Fireplace

Figure 6.4 shows typical framing using combustible materials (2x4 lumber shown).

- Observe all required air space clearances to combustible materials as shown in Figure 6.2.
- Framing across the top of fireplace must be above top standoffs.



Installation of Fireplace

CAUTION! Risk of Cuts/Abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

A. Things to Consider

- Location of chimney air kit (see Figure 7.4)
- Location(s) of outside air kit
- Electrical connections and/or wall switch
- Gas line piping

B. Position the Fireplace

- Place the fireplace on a continuous flat surface.
- Follow framing instructions in Section 6.

WARNING! Risk of Fire! Prevent contact with sagging, loose insulation.

- DO NOT install against vapor barriers or exposed insulation.
- Secure insulation and vapor barriers.
- Provide minimum air space clearances at the sides and back of the fireplace assembly as outlined in Section 6.

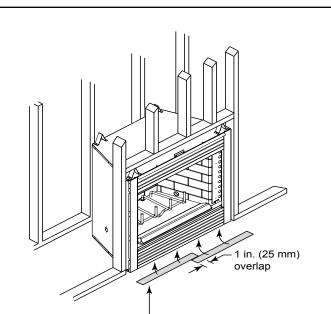
C. Place Protective Metal Hearth Strips

WARNING! Risk of Fire! Protective metal hearth strips MUST be installed. Sparks or embers may ignite flooring.

- Refer to Figures 7.1 and 7.2.
- Locate the two protective metal hearth strips measuring approximately 26 in. x 4 in. (660 mm x 102 mm) included with this fireplace.
- Slide each metal strip 2 in. (51 mm) under front edge of fireplace.
- Overlap strips in the middle of fireplace opening by 1 in. (25 mm) minimum..
- Metal strips must extend beyond the front and sides of the fireplace opening by at least 2 in. (51 mm).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 7.2. See Section 11 for hearth extension instructions.

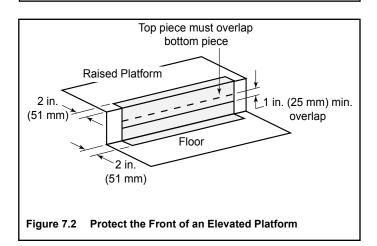
D. Level Fireplace

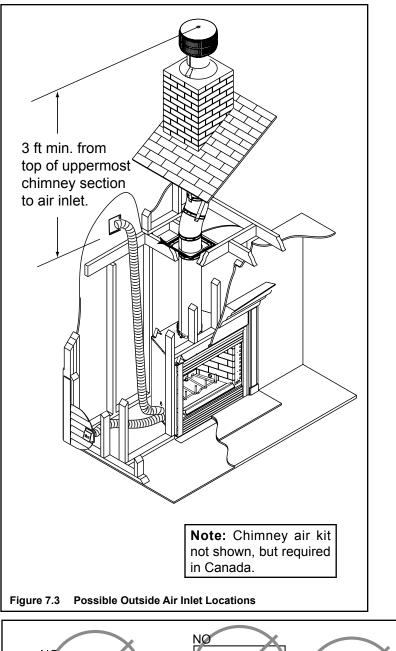
- Level fireplace side-to-side and front-to-back.
- Shim with non-combustible material as necessary.
- Secure fireplace to framing with nailing flanges with a minimum of two fasteners per nailing flange.
- Check fireplace opening for square to ensure proper fit of glass doors. Measure diagonals of fireplace opening to make sure they are equal.

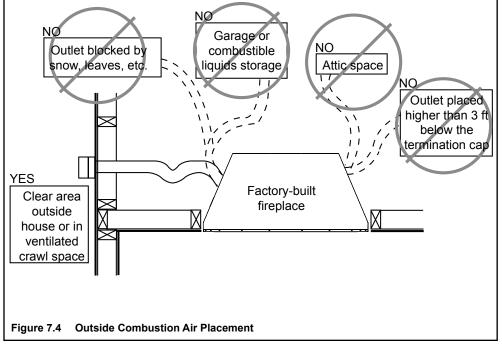


Protective metal strips are placed 2 in. (51 mm) under the front of the fireplace and must extend beyond the front and sides of fireplace opening by 2 in. (51 mm).



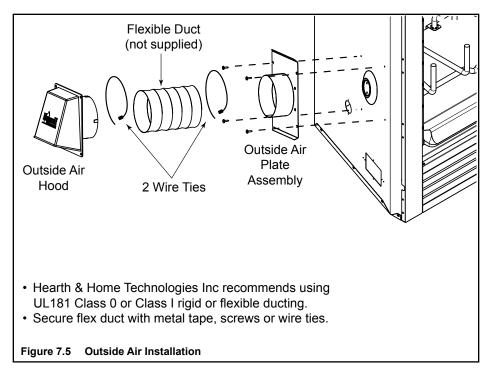






E. Install Outside Air Kit

- Keep duct runs short and straight to minimize restriction. A small dip is acceptable for a cold air trap.
- The outside air kit must be installed on the left hand side of the fireplace.
- Locate the air inlet in a clear area, preferably into prevailing wind during the heating season. Refer to Figure 5.2.
- Install as shown in Figures 7.3, 7.4 and 7.5.
- The air duct may be run vertically.
- The outside air inlet must be at least 3 ft (.91 m) below the top of the uppermost chimney section. CAUTION! Risk of Fire or Asphyxiation! DO NOT draw outside combustion air from wall, floor or ceiling cavity, or enclosed spaces such as an attic or garage.
 - **DO NOT** place outside air inlet close to exhaust vents or chimneys. Fumes or odor could be drawn into the room through the fireplace.
 - Locate outside air inlet to prevent blockage from leaves, snow/ice, or other debris. Blockages could cause combustion air starvation.

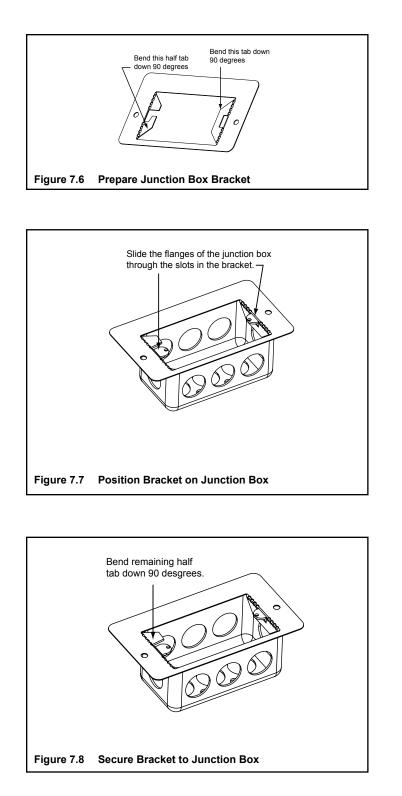


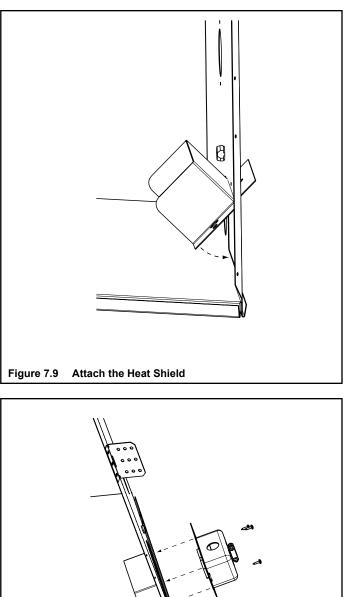
F. Junction Box Installation

NOTICE: Junction box should be installed during initial setup to avoid major reconstruction.

Your appliance is supplied with a junction box kit. We recommend the junction box be installed and wired at this time to avoid reconstruction.

- The junction box kit is to be installed on the right side of the appliance; remove and discard the metal knockout.
- Attach the junction box bracket to the junction box as shown in Figures 7.6 7.10.
- Bring the electrical wires to the inside of the junction box and secure in place with the Romex connector.
- Install the duplex receptacle in the junction box and attach the cover plate.
- Prior to attaching the junction box to the appliance, the heat shield supplied with your appliance must be installed. Insert the top flange of the heat shield through the electrical knockout hole from the inside (Figure 7.9).
- Attach the junction box bracket to the side of the appliance. See Figure 7.10. Secure with the screws provided in the fastener package.





G. Installation of Fan

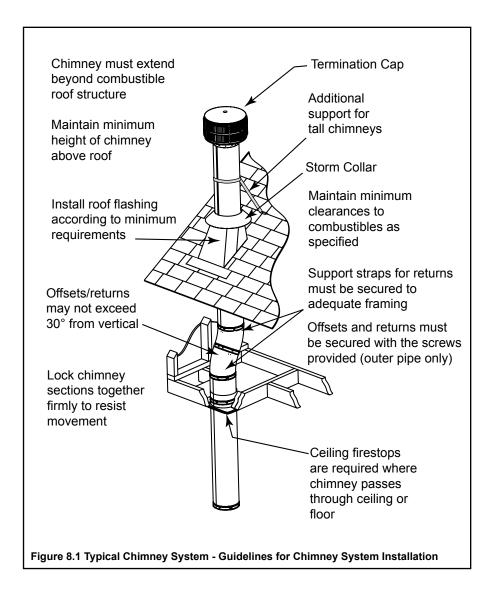
Figure 7.10 Attach the Junction Box

Follow installation instructions supplied with fan kit.



NOTICE: Chimney performance may vary.

- Trees, buildings, roof lines and wind conditions affect performance.
- Chimney height may need adjustment if smoking or overdraft occurs.



A. Chimney Requirements

Measure vertical distances from the base of the fireplace as shown in Figure 8.2.

Minimum overall straight height	16.5 ft	(5.03 m)
 Minimum height with offset/return 	16.5 ft	(5.03 m)
Maximum height	90 ft	(27.43 m)
 Maximum chimney length between an offset and return 	20 ft	(6.1 m)
 Maximum distance between chimney stabilizers 	35 ft	(10.67 m)
Double offset/return minimum height	20 ft	(6.1 m)
 Maximum unsupported chimney length between the offset and return 	6 ft	(1.83 m)
 Maximum unsupported chimney height above the fireplace 	35 ft	(10.67 m)
Maximum unsupported chimney above roof	6 ft	(1.83 m)

WARNING! Risk of Fire! You must maintain 2 in. (51 mm) air space clearance to insulation and other combustible materials around the chimney system. Failure to do so may cause overheating and fire.

Table 8.1

HEIGHT OF CHIMNEY COMPONENTS	in.	mm						
Chimney Stabilizer								
SL3	4-3/4	121						
Ceiling Firestops								
FS338	0	0						
FS339	0	0						
FS340	0	0						
Offsets/Returns								
SL315	13-3/8	340						
SL330	15-1/2	394						
Roof Flashing								
RF370	0	0						
RF371	0	0						
Chimney Sections*								
SL306	4-3/4	121						
SL312	10-3/4	273						
SL318	16-3/4	425						
SL324	22-3/4	578						
SL336	34-3/4	883						
SL348	46-3/4	1187						

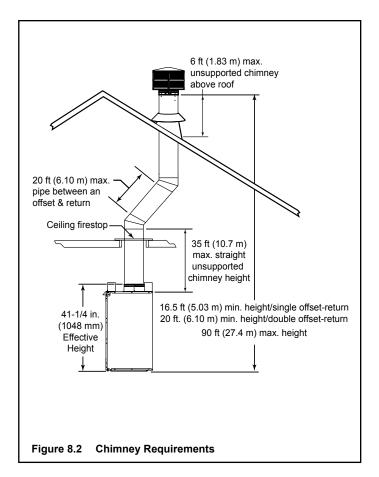
* Dimensions reflect effective height.

Determine the chimney components needed to complete your particular installation:

- Measure the total vertical height of the fireplace installation from the base of the fireplace assembly to the approximate location of the bottom of the termination cap.
- Subtract the effective height of the fireplace assembly (see Figure 8.2) from the total vertical height to determine the overall height of the chimney installation.
- Create a schematic for your application similar to Figure 8.2 showing components required (referring to Table 8.1). Figure 8.1 identifies those components and where used.
- Install a ceiling firestop whenever the chimney penetrates a floor/ceiling.

NOTICE: A maximum of two pairs of offsets and returns may be used.

CAUTION! Risk of Fire and/or Asphyxiation! DO NOT connect this fireplace to a chimney flue servicing another appliance. DO NOT connect to any air distribution duct or system. These actions could cause overheating/fire in the chimney flue, or release of exhaust fumes into the living areas.

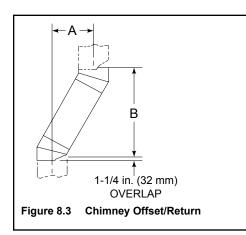


B. Using Offsets/Returns

- Use an offset/return to bypass overhead obstructions.
- An offset and return can be used as a single entity or separated by chimney section(s).

WARNING! Risk of Fire! DO NOT use offset/returns greater than 30°. Chimney draft will be restricted and could cause overheating and fire.

- Measure the shift needed to avoid the overhead obstruction. Refer to dimension A in Figure 8.3.
- Find the appropriate A dimension listed in Table 8.2.
- The B dimension coinciding with the A dimension measurement in Table 8.2 represents the required vertical clearance needed to complete the offset/return.
- Read across the chart to find the number of chimney sections/model numbers needed between the offset and return.



Example:

Your "A" dimension from Figure 8.3 is 14 1/2 in. (368 mm). Using Table 8.2 the dimension closest to, but not less than 14 1/2 in. (368 mm) is 14 1/2 in. (368 mm) using a 30° offset/return.

You determine from the table that you need 34 1/8 in. (867 mm) (Dimension "B") between the offset and return.

The chimney component that best fits your application is one SL324.

	15-d	egree									30-de	egree	
ہ Off		E Hei	-							A Offset		B Height	
in.	mm	in.	mm	SL306	SL312	SL318	SL324	SL336	SL348	in.	mm	in.	mm
1-5/8	41	13-3/8	340	-	-	-	-	-	-	3-5/8	92	15-1/2	394
2-7/8	73	17-3/4	451	1	-	-	-	-	-	5-1/2	140	18-5/8	473
4-1/8	102	22-3/8	568	2	-	-	-	-	-	7-1/4	184	21-3/4	552
4-1/2	114	23-5/8	600	-	1	-	-	-	-	8-1/2	216	23-3/4	603
5-3/4	146	28-1/4	718	1	1	-	-	-	-	10-1/4	260	27	686
6	152	29-3/8	746	-	-	1	-	-	-	11-1/2	292	29	737
7-1/4	184	34	864	-	2	-	-	-	-	13-1/4	337	32-1/8	816
7-3/4	197	36-1/8	918	-	-	-	1	-	-	14-1/2	368	34-1/8	867
8-3/4	222	39-3/4	1010	1	-	-	1	-	-	16-1/4	413	37-3/8	949
10-3/8	264	45-5/8	1159	-	-	2	-	-	-	19-1/4	489	42-1/2	1080
10-5/8	270	46-3/4	1187	-	-	-	-	1	-	20-1/2	521	44-5/8	1133
11-7/8	302	51-3/8	1305	1	-	-	-	1	-	22-1/4	565	47-3/4	1213
13-1/2	243	57-1/4	1454	-	-	-	2	-	-	25-1/4	641	52-7/8	1343
13-3/4	349	58-3/8	1483	-	-	-	-	-	1	26-1/2	673	55	1397
15	381	63	1600	1	-	-	-	-	1	28-1/4	718	58-1/8	1476
16-1/2	419	68-3/4	1746	-	1	-	-	-	1	31-1/4	794	63-1/4	1607
18	457	74-5/8	1895	-	-	1	-	-	1	34-1/4	870	68-1/2	1740
19-5/8	498	80-3/8	2042	-	-	-	1	-	1	37-1/4	946	73-3/4	1873
20-5/8	524	84-1/8	2137	1	-	-	1	-	1	39-1/8	994	76-7/8	1953
22-3/4	578	91-7/8	2334	-	-	-	-	1	1	43-1/4	1099	84-1/8	2137
24	610	96-1/2	2451	1	-	-	-	1	1	45-1/8	1146	87-1/4	2216
25-7/8	657	103-1/2	2629	-	-	-	-	-	2	49-1/4	1251	94-1/2	2400

Table 8.2

Proper assembly of air-cooled chimney parts result in an overlap at chimney joints of 1-1/4 in. (32 mm). Effective length is built into this chart.

C. Assembling Chimney Sections

WARNING! Risk of Fire! DO NOT install substitute or damaged chimney components.

• Use only those components described in this manual.

Substitute or damaged chimney components could impair safe operation and cause overheating and fire.

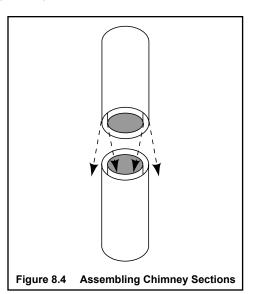
- Support the pipe during construction and check to be sure inadvertent loading has not dislodged the chimney section from the fireplace or at any chimney joint.
- Attach a straight chimney section or an offset to the top of the fireplace.
- Place inner flue to the inside of the chimney section below it. Place the outer casing outside the outer casing of the chimney section below it. Refer to Figure 8.4.

NOTICE: Chimney sections cannot be disassembled once locked together. Plan ahead!

- Lock chimney sections and/or offsets/returns together by pushing downward until the top section meets the stop bead on the lower section.
- Pull on the top section to make sure it is fully engaged and will not separate.
- You may use #6 or #8 sheet metal screws no longer than 1/2 in. (13 mm) to fasten chimney sections together. Do not penetrate inner flue.

WARNING! Risk of Fire! You MUST use screws (provided) to fasten offset/returns to chimney sections to keep the chimney parts from twisting. Failure to do so could cause fire.

- Fasten offset/returns to chimney sections. Insert the screws (provided) through the predrilled holes. Do not penetrate inner flue.
- Secure chimney returns with hanger straps provided; fasten to studs or joists.
- Vertical straight runs of chimney must be supported every 35 ft (10.7 m).



D. Install Chimney Air Kit

- Required in Canada.
- · Follow instructions provided with this accessory.

E. Installing Ceiling Firestops

CAUTION! Risk of Fire! Ceiling firestops must be used whenever the chimney penetrates a ceiling/floor.

- Chase construction requires ceiling firestops at each floor or every 10 ft (3.05 m) of clear space.
- The ceiling firestop slows spread of fire and reduces cold air infiltration.
- Install a ceiling firestop whenever chimney penetrates ceiling/floor.
- Mark and cut an opening in ceiling as shown in Figure 8.5.
- Frame the opening with the same size lumber used in the ceiling joists.
- Nail the ceiling firestop to the bottom of the ceiling joists when there is a room above.
- Use an attic insulation shield if the ceiling is insulated. The ceiling firestop may then be attached above or below the joists.

WARNING! Risk of Fire! DO NOT seal area between firestop opening and chimney pipe. Restricting air flow around chimney may cause fire.

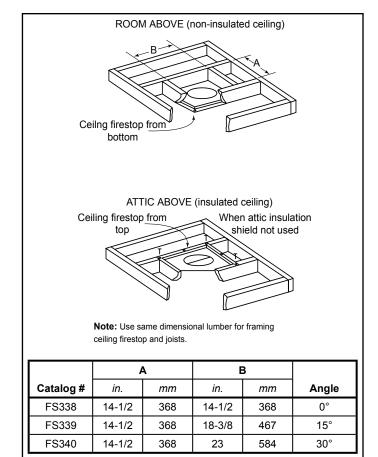


Figure 8.5 Installing the Ceiling Firestop

F. Installing Attic Insulation Shield

WARNING! Risk of Fire! You MUST install an attic insulation shield when there is any possibility of insulation or other combustible material coming into contact with the chimney.

- **DO NOT** pack insulation between the chimney and the attic insulation shield.
- Failure to keep insulation and other materials away from chimney pipe could cause fire.
- DO NOT offset chimney inside insulation shield.

Installation of a ceiling firestop is required

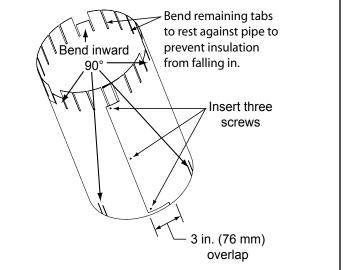
- Refer to Figures 8.6 8.8.
- Roll the shield (around the chimney if already installed) until you have a 3 in. (76 mm) overlap and the three holes on each side match up (large holes on top).
- Insert three screws into the matching holes to form a tube.
- Bend three tabs on the bottom of the tube inward to 90° to maintain chimney air space as shown in Figure 8.6.
- Rest the insulation shield on the ceiling firestop below.
- Bend the three short tabs at the top of the shield inward to 90° to maintain the 2 in. (51 mm) air space from the chimney.
- Bend the remaining top tabs to just meet the pipe.

If you wish to make a custom shield or barrier, follow these guidelines:

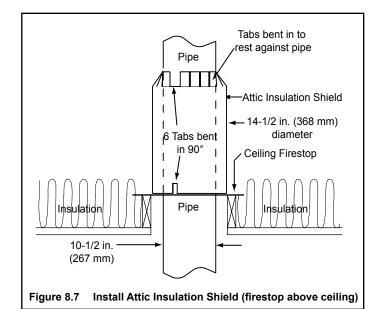
 Metal is preferred, although any material stiff enough to hold back the insulation can be used.

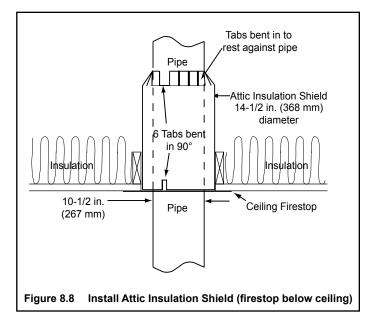
WARNING! Risk of Fire! Use of cardboard or other materials that can deflect under humidity or other environmental conditions is not recommended.

- The shield or barrier must be tall enough to extend above the insulation and prevent blown-in insulation from spilling into the cavity.
- Maintain specified air spaces around chimney.
- · Check instructions and local codes for further details.









G. Cut out Hole in Roof

- Refer to Figure 8.9.
- Plumb from roof to center of chimney.
- Drive a nail up through roof to mark center of pipe.
- Measure to either side of nail and mark the 14-1/2 in. x 14-1/2 in. (368 mm x 368 mm) opening required.
- Measure opening on the horizontal; actual length may be larger depending on roof pitch.
- Cut out and frame opening.
- Refer to Chapter 25 of the Uniform Building Code for roof framing details.

H. Complete Installation

WARNING! Risk of Fire! You MUST maintain 2 in. (51 mm) air space to insulation and other combustible materials around the chimney system. Failure to do so could cause overheating and fire.

- · Keep chimney sections from separating or twisting.
- You may secure straight chimney sections at the joints with screws no longer than 1/2 in. (13 mm).

The following steps should be skipped if using a chase.

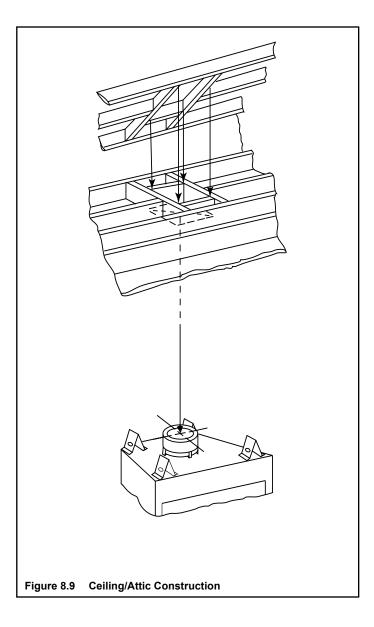
- Install roof flashing appropriate to roof pitch.
- Install round termination cap and storm collar following instructions shipped with the cap.

I. Install Flashing

- Assemble chimney so it passes through the framed opening.
- Slip the flashing over the chimney.

NOTICE: Roofing shingles must be below the flashing plate on the lower side of a sloped roof and over the flashing plate on the sides and top.

- Nail the flashing to the roof. Keep gaps between the flashing plate and the roof to a minimum.
- Caulk the flashing plate and roof junction as well as the vertical seam on the flashing. All nail heads must be caulked with a roofing sealant.



J. Chimney Termination Requirements

- Install a cap approved and listed for this fireplace system.
- · Locate cap where it will not become plugged by snow or other materials.
- Locate cap away from trees or other structures.
- The bottom of the termination cap must be at least 3 ft (.91 m) above the roof AND at least 2 ft (.61 m) above any portion of roof within 10 ft (3.05 m) as shown in Figure 8.10.
- The distance required between caps is shown in Figure 8.10.

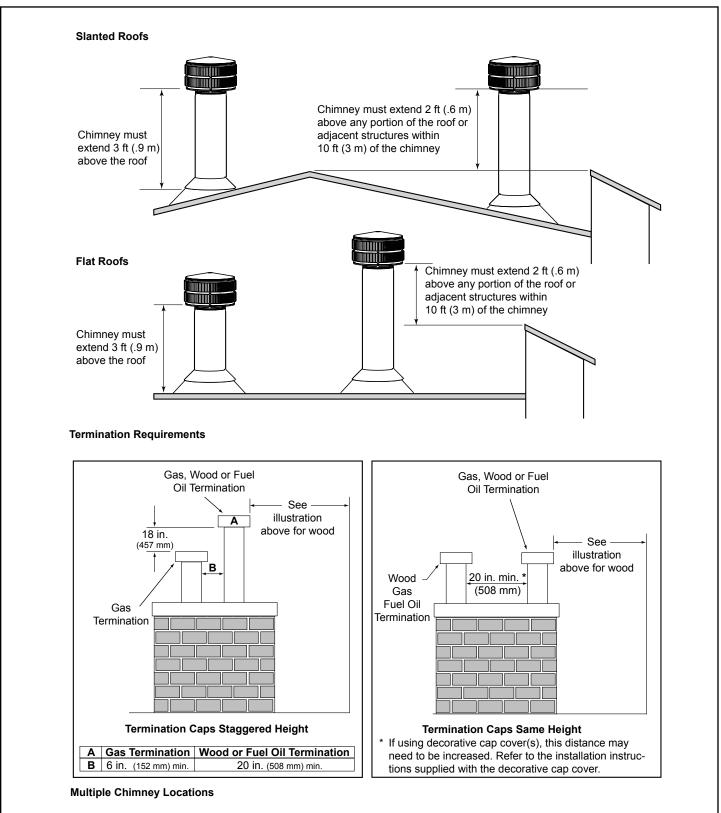


Figure 8.10 Multiple Chimney Locations

A. Construct the Chase

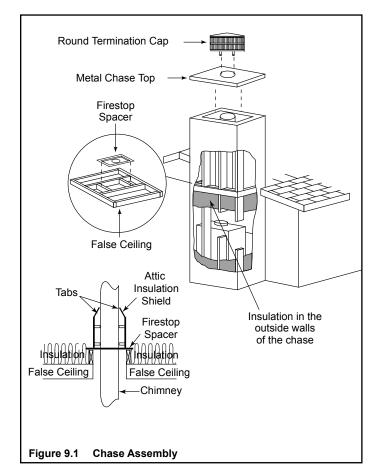
A chase is a vertical boxlike structure built to enclose the fireplace and/or its vent system. Vertical chimneys that run on the outside of a building must be installed inside a chase.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes MUST be checked.

A chase should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner. All outer walls need to be insulated.

Building codes require false ceiling and ceiling firestops at each floor of the chase or every 10 ft (3.05 m) of clear space to control spread of fire.

Walls, ceiling, base plate and cantilever floor at the first level of the chase should be insulated. See Figure 9.1. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, Hearth & Home Technologies recommends that the inside surfaces be sheet rocked and taped (or the use of an equivalent method) for maximum air tightness.

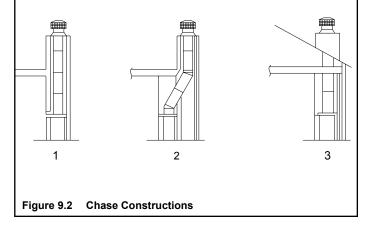


Gas line holes and other openings should be caulked with high temperature caulk or stuffed with unfaced fiberglass insulation. If the fireplace is being installed on a cement slab, we recommend that in cold climates, a sheet of plywood or other raised platform be placed underneath to prevent conducting cold up into the room.

Three examples of chase applications are shown in Figure 9.2.

- 1. Fireplace and chimney enclosed in an exterior chase.
- 2. Chimney offset through exterior wall and enclosed in chase.
- 3. Chase constructed on roof.

Note: In cooler climates, all chase walls should be insulated.



WARNING! You must install false ceilings and ceiling firestops at each floor of the chase or every 10 ft (3.05 m) to control spread of fire.

WARNING! Risk of Fire! DO NOT seal area between fire stop opening and chimney pipe. Restricting air flow around chimney may cause fire.

WARNING! Risk of Fire! You must maintain a minimum 2 in. (51 mm) air space clearance to insulation and other materials surrounding the chimney system.

- Insulation and other materials must be firmly secured to prevent accidental contact with chimney system.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to prevent contact between insulation or other materials and chimney system may cause overheating and fire.

B. Install Fireplace & Chimney

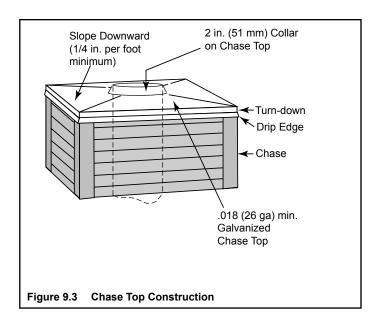
Install as per Sections 7 and 8.

C. Install Chase Top

- You MUST use a chase top in a chase installation. Chase tops are available from your Heat & Glo dealer or may be field constructed.
- Include a turndown and drip edge to prevent water from seeping into the chase.
- Include a 2 in. (51 mm) soldered, welded or spun collar around pipe opening to keep water out.
- Provide a 1/8 in. (3 mm) gap around the flue pipe.
- Slope the chase top downward away from the opening.

WARNING! DO NOT caulk the pipe to the chase top collar. Restricting air flow around chimney may cause fire.

- Caulk all seams to prevent leaks.
- Refer to Figure 9.3.



D. Install Termination Cap

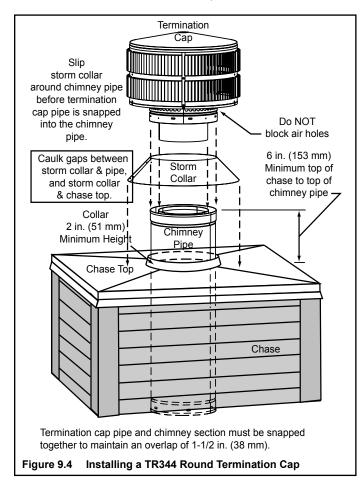
Install the chimney sections up through the chase enclosure.

• Refer to termination cap instructions.

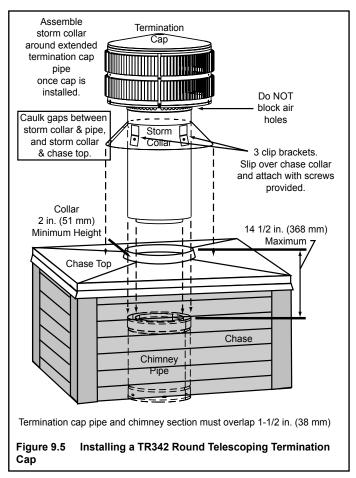
WARNING! Risk of Fire! The minimum overlap of cap to pipe (as shown in the following illustrations) MUST be met or chimney may separate from cap. Separation allows sparks, heat and embers to escape.

NOTICE: Paint the termination cap with a rust-resistant paint to protect against the effects of corrosion on those parts exposed to the weather.

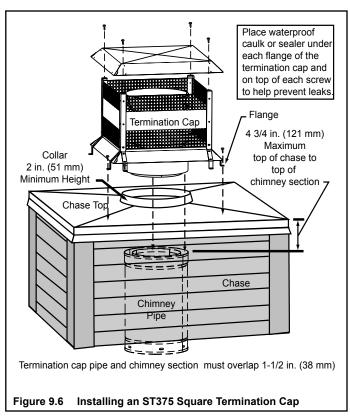
TR344 Round Termination Cap



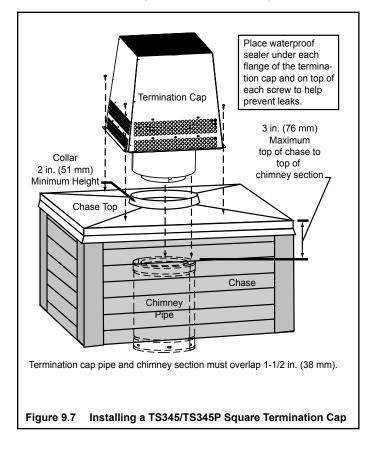
TR342 Round Telescoping Termination Cap



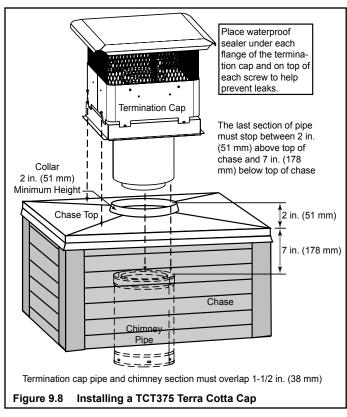
ST375 Square Termination Cap



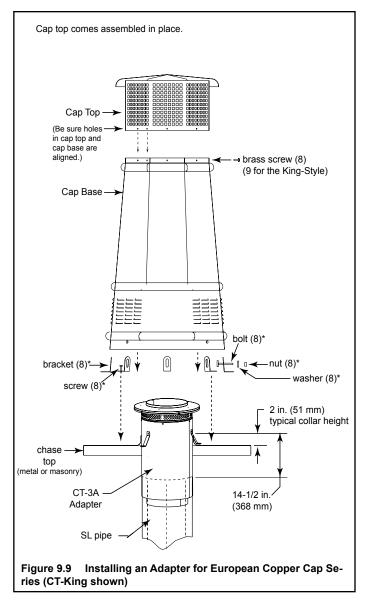
TS345/TS345P Square Termination Cap



• TCT375 Terra Cotta Cap



• European Copper Series Termination Cap





A. Radiation Shield

• Some shrouds require a radiation shield. Use where specified.

B. Field Constructed Shrouds

WARNING! Risk of Fire! Shrouds must be constructed as specified. Improper construction may overheat chase top.

• Chase top shrouds may be field constructed where permitted by regional building codes.

NOTICE: Some regional codes require an agency-Listed shroud. Consult your local building officials.

- Hearth & Home Technologies Inc. supplies UL listed shrouds. See your dealer for details.
- Shrouds must be constructed of minimum 26 ga sheet metal.
- Different shroud designs have been tested for Hearth Technologies fireplace systems using the TR11 and TR11T termination caps.

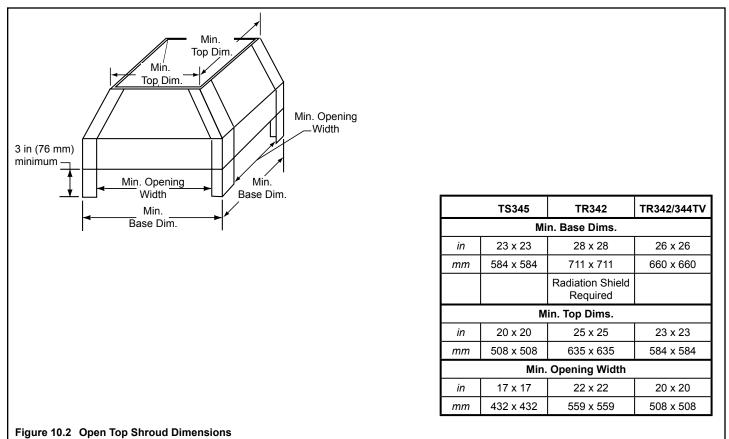
Ø 17 1/2 in. (444.5 mm) Round Hole to fit over cap

Length x Width to fit inside shroud

Figure 10.1 Radiation Shield

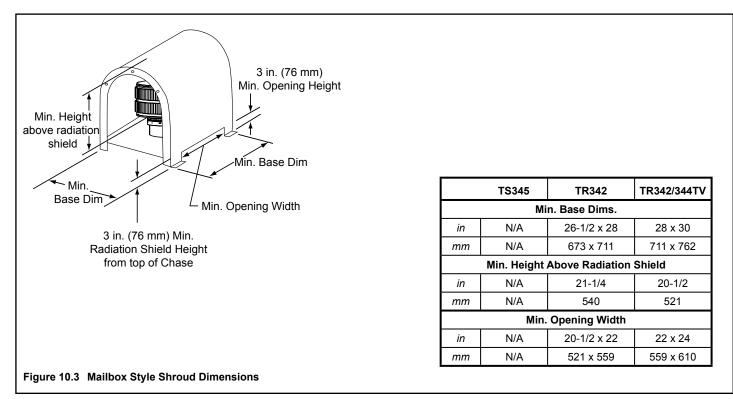
3 in. (76 mm) tall legs

- The shrouds must be constructed from a minimum .018 in. (26 ga) thick aluminized steel.
- The wire mesh is optional but recommended and must be .018 in. thick minimum.

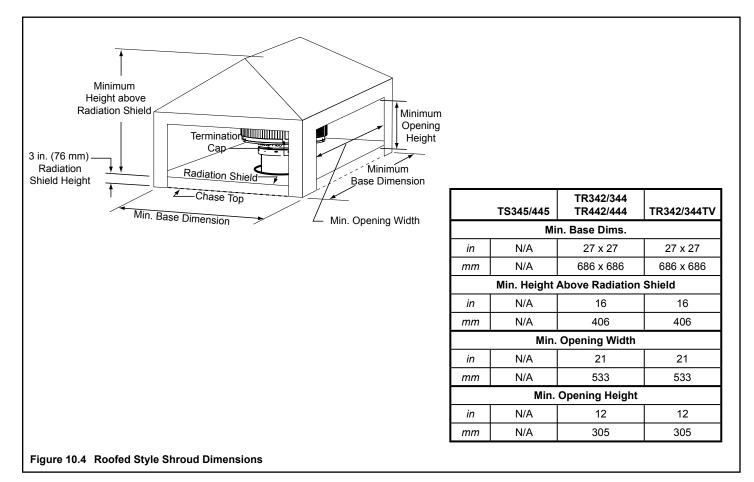


Open Top Shroud (TR342 & TR11/TR11T caps require radiation shield)

Mailbox Style Shroud (radiation shield required)



Roofed Style Shroud (radiation shield required)





A. Non-Combustible Materials

- Materials which will not ignite and burn, composed of any combination of the following:
 - Steel Iron
 - Brick Tile
 - Concrete Slate
 - Glass Plasters
- Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace at 750° C

B. Combustible Materials

- Materials made of or surfaced with any of the following materials:
 - Wood Compressed paper
 - Plant fibers Plastic
- Any material that can ignite and burn; flame proofed or not, plastered or un-plastered

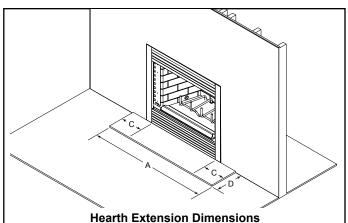
C. Hearth Extension

WARNING! Risk of fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips MUST be installed (Section 7.C.).
- Hearth extensions MUST be installed exactly as specified.
- Table 11.1

R = 1/k x inches of thickness

- You MUST use a hearth extension with this fireplace.
- This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 1.03.
- The hearth extension material MUST be covered with tile, stone or other non-combustible material.
- Manufactured hearth materials will usually have a published R value (resistance to heat) or k value (conductivity of heat). Refer to the formula in Table 11.1 to convert a k value to an R value,
- Refer to Table 11.2 for hearth extension insulation alternatives.



Model #		Α	В	С
EM-415	in.	52	16	8
(HX3)	mm	1321	406	203
EM-485	in.	66	20	8
(HX4)	mm	1676	508	203

Figure 11.1 Hearth Extension Dimensions

Table 11.2

Material	k per inch thick	r per inch thick	Minimum thickness required
Hearth & Home HX3, HX4 (Micore 300™)	0.49	2.06	1/2 in.
USG Micore 160™	0.39	2.54	1/2 in.
USG Durock™ Cement Board	1.92	0.52	2 in.
Cement Mortor	5.0	0.20	5-1/8 in.
Common Brick	5.0	0.20	5-1/8 in.
Ceramic Tile	12.50	0.08	12-1/4 in.
Armstrong™ Privacy Guard Plus	0.46	2.18	1/2 in.
Marble	14.3-20.0	0.07-0.05	14-5/8 in 20-3/8 i

D. Finishing Material

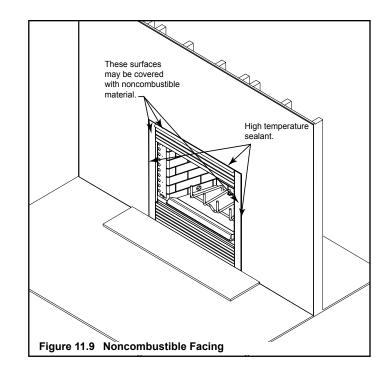
Refer to Section 11 for combustible/noncombustible materials. Refer to Figure 11.9 for noncombustible zone.

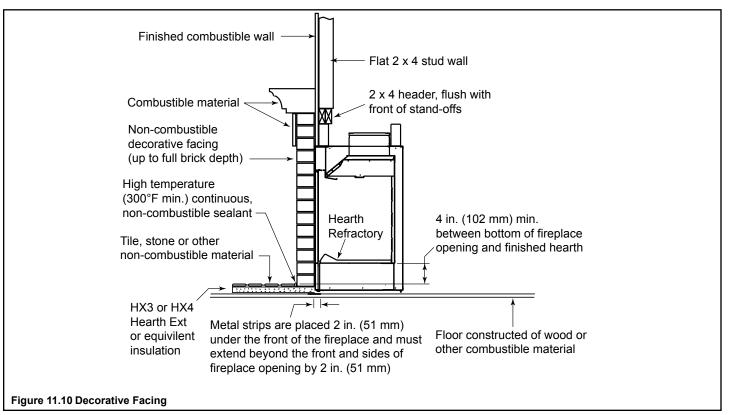
WARNING! Risk of Fire! You must maintain clearances.

- Use only non-combustible framing material below standoffs.
- Sheetrock, wood or other combustibles must NOT be used as sheathing or facing in the noncombustible zone.
- **DO NOT** cover metal fireplace front with combustible materials.
- Install combustible materials only to specified clearances on top front and side edges.

WARNING! Risk of Fire!

- DO NOT obstruct air inlets or outlets.
- **DO NOT** modify grilles. Modifying or covering grilles could cause temperature rise and fire hazard.
- Finishing materials must not interfere with: air flow through grilles or louvers; operation of louvers or doors; access for service.
- Complete framing and apply facing material (drywall) over framing.
- A bead of 300-deg F minimum non-combustible sealant must be used to close off any gaps at the top and sides between the fireplace and facing to prevent cold air leaks.
- Large gaps can be bridged with fiberglass rope gasket.
- Only non-combustible materials may be used to cover the metal fireplace front.



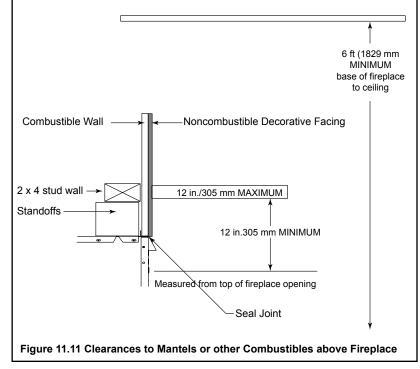


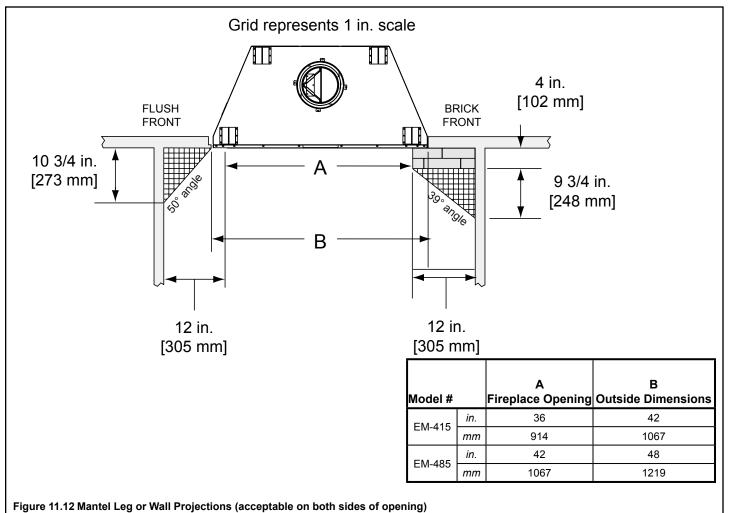
E. Combustible Mantel

- See Figure 11.11.
- A combustible mantel may be positioned no lower than 20 in. (508 mm) above the top of the fireplace opening.
- A combustible mantel may have a maximum depth of 12 in. (305 mm).
- Combustible trim and mantels cannot be placed within 6 in. (152 mm) of the fireplace opening (top or sides).
- Combustible materials projecting more than 1-1/2 in. (38 mm) shall not be placed within 12 in. (305 mm) from the top of the fireplace opening.
- Combustible trim must not cover the metal surfaces of the fireplace.
- Mantel clearance is in accordance with Section 7-3.3.3 of ANSI/NFPA211.

F. Sidewalls/Surrounds

- Adjacent combustible sidewalls must be located a minimum of 12 in. (305 mm) from the fireplace opening.
- Combustible or noncombustible mantel legs, surrounds and stub walls may be constructed per Figure 11.12.







A. Gas Log/Lighter Provision

WARNING! Fire and/or Asphyxiation Risk! Use with solid wood fuel or decorative gas appliance only. Gas fire generates fumes.

- DO NOT install unvented gas logs
- Damper must be locked fully open when gas logs are installed

A certified gas log lighter or decorative gas log set can be installed in this fireplace.

- Maximum input is 100,000 BTU/hr.
- Decorative gas appliance must be certified to ANSI Z21.60 "Standard for Decorative Gas Appliances for Installation in Vented Fireplaces".
- Must be installed in accordance with the National Fuel Gas Code, ANSI Z223.1.
- · A gas log set must incorporate a gas shutoff.
- Gas Log set requires the damper to be locked fully open.
- Knockouts are provided on both sides of the fireplace and in refractories for 1/2 in. (13 mm) iron pipe.
- Seal refractory around pipe with fireplace mortar or a high temperature, noncombustible sealant.

B. Wood Burning Inserts

WARNING! Risk of Fire! Improper installation of wood inserts may cause fireplace or chimney system to overheat.

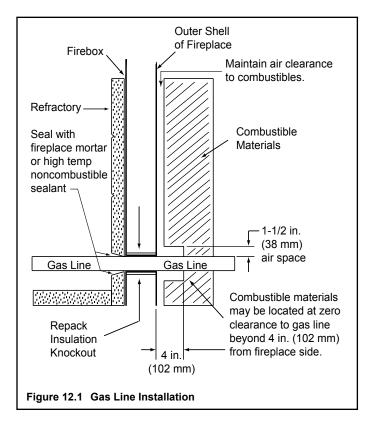
If a wood burning insert is being installed in this fireplace, Hearth & Home Technologies recommends full reline of the chimney.

- Cooling air openings at the top of the chimney must not be obstructed in any manner.
- Hearth & Home Technologies recommends securing the reline at the top of the flue and using the cap certified for use with this fireplace system.

C. Install Fan

- Optional.
- · Follow instructions included with fan kit.

WARNING! Risk of Electric Shock! DO NOT remove grounding prong from plug or route cord under or in front of appliance. Plug directly into a properly grounded three-prong receptacle and route cord away from appliance.





A. Fireplace Dimensions

A B	in. 36 42 28 1/4 14 1/8	<i>mm</i> 914 1067 718 359	<i>in.</i> 42 48 30 7/8 15 1/2	<i>mm</i> 1067 1219 784 394	3-7/8 in. (92 mm) (92 mm) (92 mm) (92 mm) (92 mm) (1048 mm) (1048 mm) (1048 mm) (1048 mm) (1048 mm) (1048 mm) (1051 mm) (1051 mm) (1051 mm) (108 mm
Model #			EW 185		$(10^{-1/4}$ in $(10^{-1/2}$ i

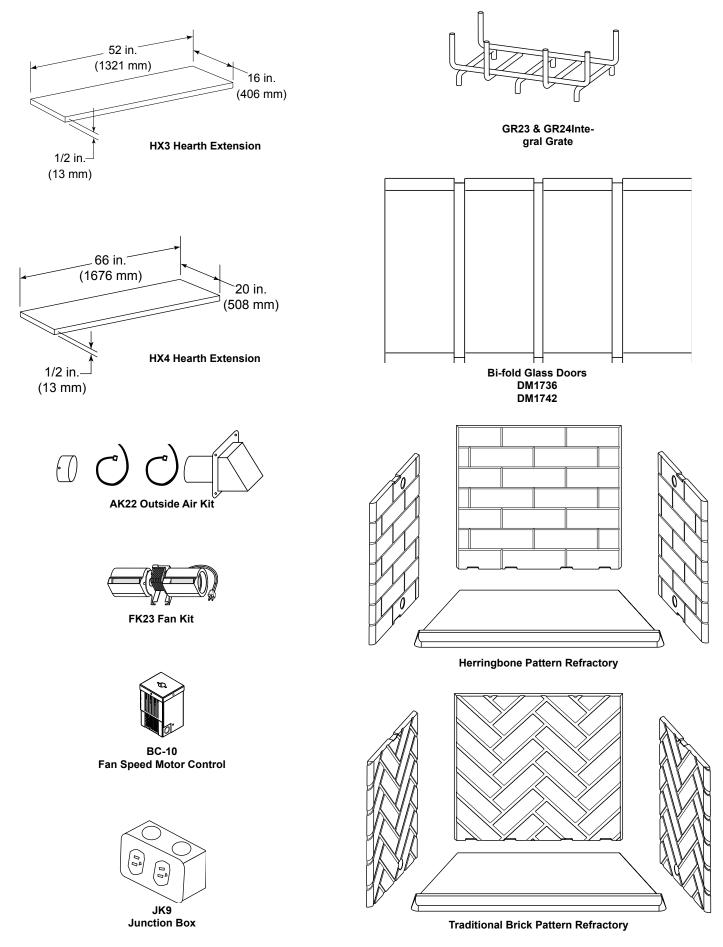
Heat & Glo • EM-415, EM-485 • 33056 • Rev V • 05/08

B. Fireplace Components

Catalog #	Description
EM-415	Circulating Fireplace with Integral Grate, Hearth Protection Strips, Traditional Brick Pattern Refractory and junction box
EM-415H	CirculatingFireplace with Integral Grate, Hearth Protection Strips, Herringbone Pattern Refractory and junction box
DM1736	Bi-Fold Glass Door - Clear View - Black
DM1736B	Bi-Fold Glass Door - Clear View - Polished Brass
DM1736S	Bi-Fold Glass Door - Clear View - Stainless Steel
AK22	Outside Air Kit
HX3	Hearth Extension
GR23	Integral Grate (included with fireplace)
FK23	Fan Kit
JK9	Junction Box (should be installed during initial installation to avoid considerable reconstruction)
BC-10	Fan Speed Control Kit
TK301B	Polished brass trim kit (6 bars, 1 hood)
TK401B	Polished brass trim kit (6 bars, 1 hood)
TK6B	Polished brass louver trim kit (4 pieces)
TK6S	Stainless steel louver trim kit (4 pieces)

Catalog #	Description
EM-485T	Fireplace with Integral Grate, Hearth Protection Strips and Traditional Brick Pattern Refractory
EM-485TH	Fireplace with Integral Grate, Hearth Protection Strips and Herringbone Pattern Refractory
DM1742	Bi-Fold Glass Door - Clear View - Black
DM1742B	Bi-Fold Glass Door - Clear View - Polished Brass
DM1742S	Bi-Fold Glass Door - Clear View - Stainless Steel
AK22	Outside Air Kit
HX4	Hearth Extension
GR24	Integral Grate (included with the fireplace)
FK23	Fan Kit
JK9	Junction Box (should be installed during initial installation to avoid considerable reconstruction)
BC-10	Fan Speed Control Kit
TK401B	Polished brass trim kit (6 bars, 1 hood)
TK7B	Polished brass louver trim kit (4 pieces)
TK7S	Stainless steel louver trim kit (4 pieces)

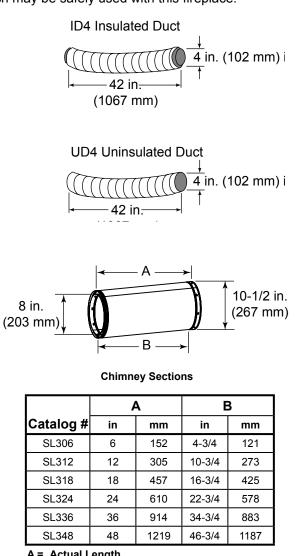
B. Fireplace Components (continued)



C. Chimney Components

The following pictures show only those chimney components which may be safely used with this fireplace.

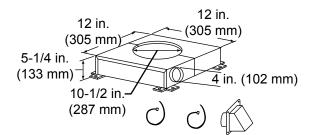
CAK4AChimney Air KitID4Insulated Duct/Outside AirUD4Uninsulated Duct/Outside AirSL306Chimney Section - 6 in. (152 mm) longSL312Chimney Section - 12 in. (305 mm) longSL318Chimney Section - 18 in. (457 mm) longSL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL330Ceiling Firestop - StraightFS338Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF371Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - Sishop StyleCT-KingEuropean Copper Termination Cap - Bishop StyleCT-KingH-IEuropean Copper Termination Cap - Sishop Style		
UD4Uninsulated Duct/Outside AirSL306Chimney Section - 6 in. (152 mm) longSL312Chimney Section - 12 in. (305 mm) longSL318Chimney Section - 18 in. (457 mm) longSL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3SL345Chimney Offset/Return - 15 degSL300Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-Bishop-IIEuropean Copper Termination Cap - Sishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	CAK4A	Chimney Air Kit
SL306Chimney Section - 6 in. (152 mm) longSL312Chimney Section - 12 in. (305 mm) longSL318Chimney Section - 18 in. (457 mm) longSL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - 6/12 to 12/12 PitchTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	ID4	Insulated Duct/Outside Air
SL312Chimney Section - 12 in. (305 mm) longSL318Chimney Section - 18 in. (457 mm) longSL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-WingEuropean Copper Termination Cap - King StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	UD4	Uninsulated Duct/Outside Air
SL318Chimney Section - 18 in. (457 mm) longSL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL336Chimney Section - 48 in. (1219 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3Chimney Offset/Return - 15 degSL330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTS345PSquare Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-4ueenEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL306	Chimney Section - 6 in. (152 mm) long
SL324Chimney Section - 24 in. (610 mm) longSL336Chimney Section - 36 in. (914 mm) longSL348Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL300Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchTR342Round Termination CapTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - Ring StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL312	Chimney Section - 12 in. (305 mm) long
SL336Chimney Section - 36 in. (914 mm) longSL336Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination CapCT-3AAdapterCT-GueenEuropean Copper Termination Cap - Sing StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL318	Chimney Section - 18 in. (457 mm) long
SL348Chimney Section - 48 in. (1219 mm) longSL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL300Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTC35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - Sishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL324	Chimney Section - 24 in. (610 mm) long
SL3Chimney StabilizerSL315Chimney Offset/Return - 15 degSL300Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR342Round Termination CapTS345Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-AAAdapterCT-KingEuropean Copper Termination Cap - Sishop StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop Style	SL336	Chimney Section - 36 in. (914 mm) long
SL315Chimney Offset/Return - 15 degSL330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTS345PSquare Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-XingEuropean Copper Termination Cap - Ring StyleCT-KingEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL348	Chimney Section - 48 in. (1219 mm) long
SL 330Chimney Offset/Return - 30 degFS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTS345PSquare Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-AAdapterCT-KingEuropean Copper Termination Cap - Ring StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL3	Chimney Stabilizer
FS338Ceiling Firestop - StraightFS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTS345PSquare Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Ring StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL315	Chimney Offset/Return - 15 deg
FS339Ceiling Firestop - 15 degFS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345PSquare Termination CapTC1375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	SL330	Chimney Offset/Return - 30 deg
FS340Ceiling Firestop - 30 degAS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345Square Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termina- tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	FS338	Ceiling Firestop - Straight
AS8SL300 Straight Attic Insulation Shield, 24 in. (610 mm)JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTC375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Ring StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	FS339	Ceiling Firestop - 15 deg
JB877Chimney Joint BandCB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Ring StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	FS340	Ceiling Firestop - 30 deg
CB876Chimney BracketRF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345Square Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	AS8	SL300 Straight Attic Insulation Shield, 24 in. (610 mm)
RF370Roof Flashing - Flat to 6/12 PitchRF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345Square Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	JB877	Chimney Joint Band
RF371Roof Flashing - 6/12 to 12/12 PitchTR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345Square Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	CB876	Chimney Bracket
TR344Round Termination CapTR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	RF370	Roof Flashing - Flat to 6/12 Pitch
TR342Round Telescoping Termination CapST375Square Termination CapTS345Square Termination CapTS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	RF371	Roof Flashing - 6/12 to 12/12 Pitch
ST375Square Termination CapTS345Square Termination CapTS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	TR344	Round Termination Cap
TS345Square Termination CapTS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	TR342	Round Telescoping Termination Cap
TS345PSquare Termination Cap - PaintedTCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	ST375	Square Termination Cap
TCT375Terra Cotta Termination CapCT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-QueenEuropean Copper Termination Cap - King StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	TS345	Square Termination Cap
CT35Chase TopLDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	TS345P	Square Termination Cap - Painted
LDS33Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	TCT375	Terra Cotta Termination Cap
LDS46Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	CT35	Chase Top
LDS-BVDecorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)Field Constructed Shrouds (See "Woodburning Termination Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	LDS33	Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)
Field Constructed Shrouds (See "Woodburning Termination Cap") CT-3A Adapter CT-King European Copper Termination Cap - King Style CT-Queen European Copper Termination Cap - Queen Style CT-Bishop-I European Copper Termination Cap - Bishop Style CT-Bishop-II European Copper Termination Cap - Bishop Style	LDS46	Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)
tion Cap")CT-3AAdapterCT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	LDS-BV	Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)
CT-KingEuropean Copper Termination Cap - King StyleCT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style		· · · ·
CT-QueenEuropean Copper Termination Cap - Queen StyleCT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	CT-3A	Adapter
CT-Bishop-IEuropean Copper Termination Cap - Bishop StyleCT-Bishop-IIEuropean Copper Termination Cap - Bishop Style	CT-King	European Copper Termination Cap - King Style
CT-Bishop-II European Copper Termination Cap - Bishop Style	CT-Queen	European Copper Termination Cap - Queen Style
	CT-Bishop-I	European Copper Termination Cap - Bishop Style
CT-Knight-I European Copper Termination Cap - Knight Style	CT-Bishop-II	European Copper Termination Cap - Bishop Style
	CT-Knight-I	European Copper Termination Cap - Knight Style

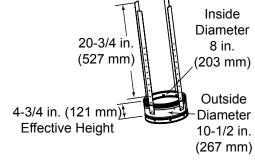


A = Actual Length

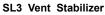
8 in.

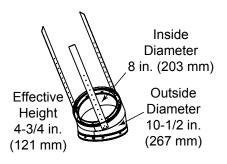
B = Effective Length (length of chimney part after it has been snapped to another)





CAK4A Chimney Air Kit



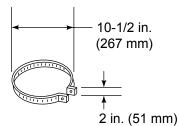


SL315/SL330 Offset/Return

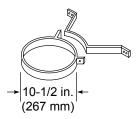


Assembled Diameter: 14 1/2 in./368 mm Height: 24 in./610 mm

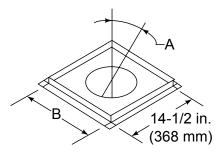
AS8 Straight Attic Insulation Shield



JB877 Chimney Joint Band

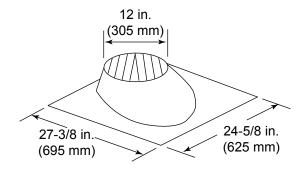


CB876 Chimney Joint Band

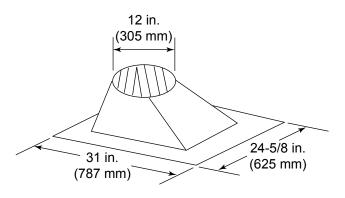


Ceiling Firestop

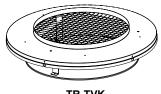
Catalog #	Α	E	3
FS338	0-deg.	14-1/2 in.	368 mm
FS339	15-deg.	18-3/8 in.	467 mm
FS340	30-deg.	23 in.	584 mm



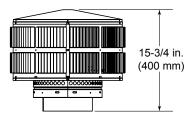
RF370 Roof Flashing



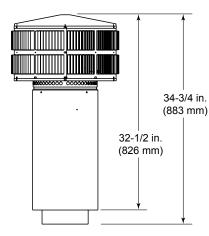
RF371 Roof Flashing



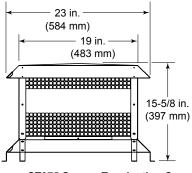
TR-TVK



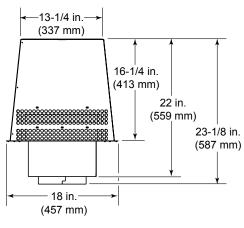
TR344 Round Termination Cap



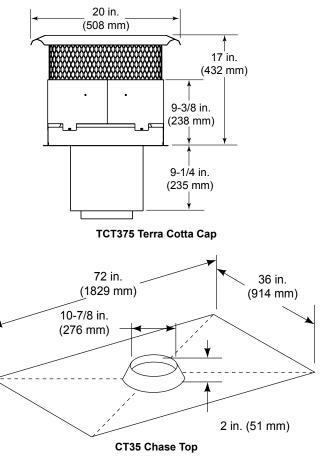
TR342 Round Telescoping Termination Cap

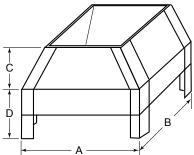


ST375 Square Termination Cap



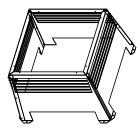
TS345/TS345P Square Termination Cap

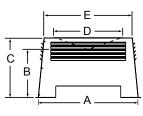




LDS33/LDS46 Decorative Shroud

		4	E	3	C)	[)
Catalog #	in.	mm	in.	mm	in.	mm	in.	mm
LDS33	36	914	36	914	8-1/2	216	11	279
LDS46	48	1219	72	1829	8-1/2	216	11	279

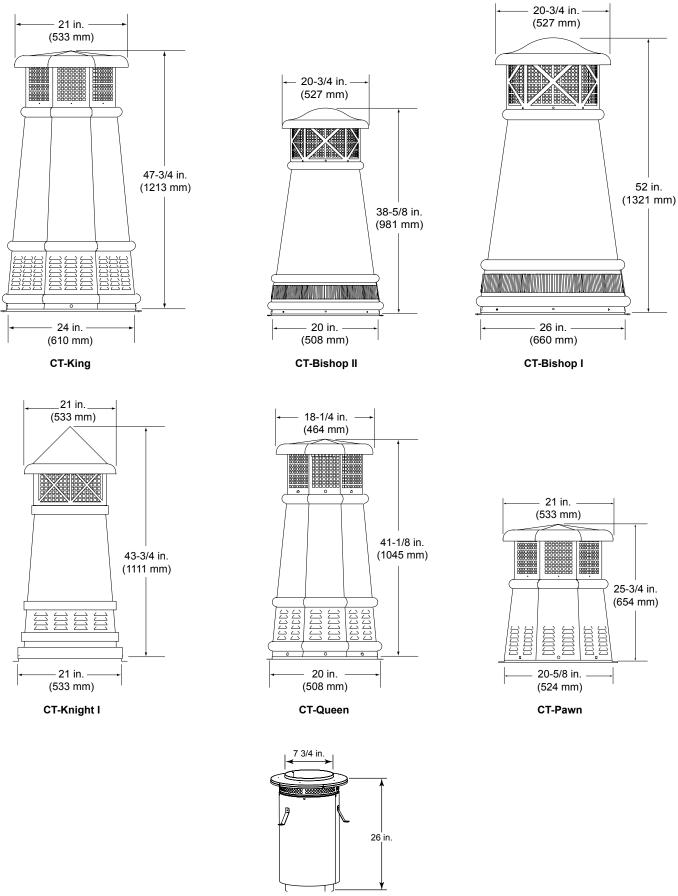




LDS-BV Decorative Shroud

Catalog #		Α	В	С	D	Е
LDS-BV	in.	26	12-1/2	15-1/2	22	23
LD3-BV	mm	660	318	394	533	584

European Copper Caps



CT-3A

HEAT&GLO. Service Parts

No one builds a better fire

Service Parts List Accelerator Woodburning Fireplaces

Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

EM-415 SERIES

#	Description of Part	EM-415	EM-415H	oty.
	Refractory Retainer	11847	11847	٣
1	Traditional Brick Back Refractory - pre 34/98	29245		7
	Traditional Brick Back Refractory - post 34/98	29992		٢
2	Traditional Brick Hearth Refractory - pre 34/98	29244		1
2	Traditional Brick Hearth Refractory - post 34/98	29993		7
e	Traditional Brick Side Refractory	28393		~
4	Herringbone Brick Back Refractory		4010-016	-
5	Herringbone Brick Hearth Refractory		4010-019	7
6	Herringbone Brick Side Refractory - Right		4010-013	1
7	Herringbone Brick Side Refractory - Left		4010-014	1
	Firescreen Rod	12052	12052	~
∞	Firescreen Assembly	28417	28417	~
	Firescreen Ring	11857B	11857B	2/8
	Firescreen Handle	4021-149	4021-149	-
6	Top Standoff	4044-111	4044-111	4
10	Drywall Flange	29238	29238	٦
	Door Track	15425	15425	1
	Door Pivot Clip	31527	31527	~
	Strip Protector	18320	18320	~
11	8 in. Starter Section Assembly	22069B	22069B	1
	Junction Box Cover Plate	26548	26548	e
	Junction Box Kit	ЛКӨ	ЛКӨ	1
12	Junction Box	21878	21878	1
	Romex Connector	32536	32536	1
	Junction Box Installation Instructions	31166	31166	+
13	Hearth Filler	30331	30331	1
14	Smoke Shield	31191	31191	1
	Smoke Diverter	30559	30559	٢
	Damper Repair Kit	4010-001	4010-001	+
	Nailing Flange	31190	31190	4
15	Hood	31682	31682	7
16	Grate	GR23	GR23	1
17	Lower Grille Assembly	31679	31679	1
18	Upper Grille Assembly	31696	31696	1
	Installation Pack	31699	31699	1
	Velcro Strips	17439A,17440A 17439A,17440A	17439A.17440A	2ea

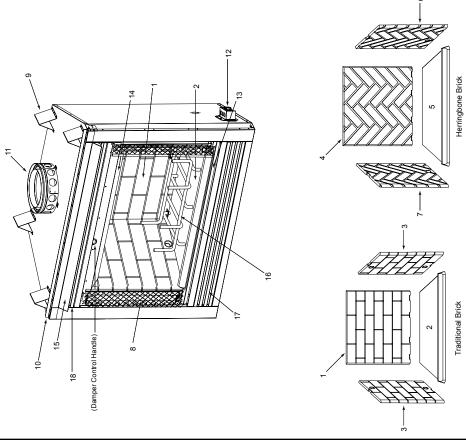
71479 31317

31317 71479

Installation Instructions and Owner's Manual

Exterior Touch-up Paint

Herringbone Brick Refractory option available week 03/04.



Heat & Glo • EM-415, EM-485 • 33056 • Rev V • 05/08

D. Service Parts

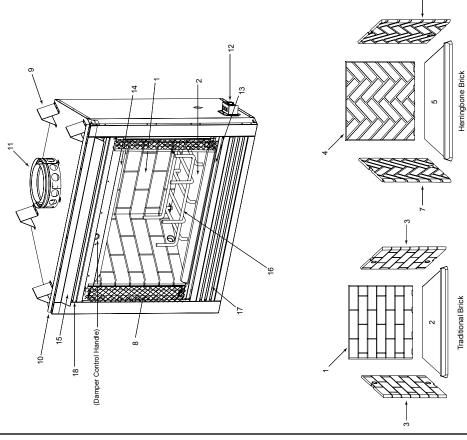
HEAT&GLO Service Parts

EM-485 SERIES

No one builds a better fire

Service Parts List Accelerator Woodburning Fireplaces

Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active



#	# Description of Part	EM-485T	EM-485T EM-485TH Qty.	ğ
	Refractory Retainer	11847	11847	ε
1	Traditional Brick Back Refractory	28394		1
2	Traditional Brick Hearth Refractory	28391		1
з	Traditional Brick Side Refractory	28393		2
4	Herringbone Brick Back Refractory		4010-015	1
5	Herringbone Brick Hearth Refractory		4010-020	1
9	Herringbone Brick Side Refractory - Right		4010-013	1
7	Herringbone Brick Side Refractory - Left		4010-014	1
	Firescreen Rod	28404	28404	~
8	Firescreen Assembly	32441	32441	2
	Firescreen Ring	11857B	11857B	7/8
	Firescreen Handle	4021-149	4021-149	1
6	Top Standoff	4044-111	4044-111	4
10	Drywall Flange	28388	28388	1
	Door Track	15427	15427	1
	Door Pivot Clip	31527	31527	2
	Strip Protector	18320	18320	2
11	8 in. Starter Section Assembly	22069B	22069B	1
	Junction Box Cover Plate	26548	26548	e
	Junction Box Kit	ЛКЭ	JK9	1
12	Junction Box	21878	21878	1
	Romex Connector	32536	32536	1
	Junction Box Installation Instructions	31166	31166	7
13	Hearth Filler	30332	30332	1
14	Smoke Shield	35221	35221	1
	Smoke Shield Extension Kit	35397	35397	1
	Smoke Baffle	35265	35265	1
	Smoke Baffle	35266	35266	1
	Damper Repair Kit	4010-001	4010-001	٢
	Nailing Flange	31190	31190	4
15	Hood	31683	31683	1
16	Grate	GR24	GR24	٢
17	Lower Grille Assembly	31680	31680	1
18	Upper Grille Assembly	31697	31697	1
-	Installation Pack	31699	31699	1
	Velcro Strips	17439A, 17440A	17439A,17440A	2ea
	Installation Instructions and Owner's Manual	33056	33056	1
	Exterior Touch-up Paint	71479	71479	1
┼╧	Herringbone Brick Refractory option available week 03/04.			

This page intentionally left blank.

This page intentionally left blank.

E. Contact Information

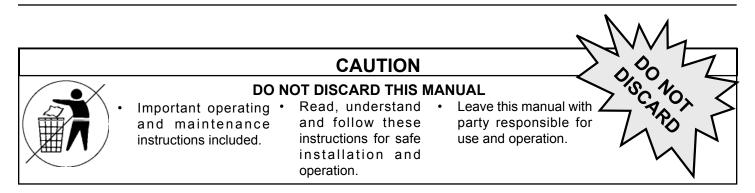


No one builds a better fire

Please contact your Heat & Glo dealer with any questions or concerns.

For the number of your nearest Heat & Glo dealer, please visit www.heatnglo.com.





This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.